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APPLICATION FOR LETTERS PATENT

Application Program Interface for Network Software Platform

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TECHNICAL FIELD

This invention relates to network software, such as Web applications, and to computer software development of such network software. More particularly, this invention relates to an application program interface (API) that facilitates use of a network software platform by application programs and computer hardware.

BACKGROUND

Very early on, computer software came to be categorized as "operating system" software or "application" software. Broadly speaking, an application is software meant to perform a specific task for the computer user such as solving a mathematical equation or supporting word processing. The operating system is the software that manages and controls the computer hardware. The goal of the operating system is to make the computer resources available to the application programmer while at the same time, hiding the complexity necessary to actually control the hardware.

The operating system makes the resources available via functions that are collectively known as the Application Program Interface or API. The term API is also used in reference to a single one of these functions. The functions are often grouped in terms of what resource or service they provide to the application programmer. Application software requests resources by calling individual API functions. API functions also serve as the means by which messages and information provided by the operating system are relayed back to the application software.

In addition to changes in hardware, another factor driving the evolution of operating system software has been the desire to simplify and speed application

software development. Application software development can be a daunting task, sometimes requiring years of developer time to create a sophisticated program with millions of lines of code. For a popular operating system such as Microsoft Windows®, application software developers write thousands of different applications each year that utilize the operating system. A coherent and usable operating system base is required to support so many diverse application developers.

Often, development of application software can be made simpler by making the operating system more complex. That is, if a function may be useful to several different application programs, it may be better to write it once for inclusion in the operating system, than requiring dozens of software developers to write it dozens of times for inclusion in dozens of different applications. In this manner, if the operating system supports a wide range of common functionality required by a number of applications, significant savings in applications software development costs and time can be achieved.

Regardless of where the line between operating system and application software is drawn, it is clear that for a useful operating system, the API between the operating system and the computer hardware and application software is as important as efficient internal operation of the operating system itself.

Over the past few years, the universal adoption of the Internet, and networking technology in general, has changed the landscape for computer software developers. Traditionally, software developers focused on single-site software applications for standalone desktop computers, or LAN-based computers that were connected to a limited number of other computers via a local area network (LAN). Such software applications were typically referred to as "shrink

wrapped" products because the software was marketed and sold in a shrink-wrapped package. The applications utilized well-defined APIs to access the underlying operating system of the computer.

As the Internet evolved and gained widespread acceptance, the industry began to recognize the power of hosting applications at various sites on the World Wide Web (or simply the "Web"). In the networked world, clients from anywhere could submit requests to server-based applications hosted at diverse locations and receive responses back in fractions of a second. These Web applications, however, were typically developed using the same operating system platform that was originally developed for standalone computing machines or locally networked computers. Unfortunately, in some instances, these applications do not adequately transfer to the distributed computing regime. The underlying platform was simply not constructed with the idea of supporting limitless numbers of interconnected computers.

To accommodate the shift to the distributed computing environment being ushered in by the Internet, Microsoft Corporation is developing a network software platform known as the ".NET" platform (read as "Dot Net"). The platform allows developers to create Web services that will execute over the Internet. Such a dynamic shift requires a new ground-up design of an entirely new API.

In response to this challenge, the inventors developed a unique set of API functions for Microsoft's .NETTM platform.

SUMMARY

An application program interface (API) provides a set of functions, including a set of base classes and types that are used in substantially all applications accessing the API, for application developers who build Web applications on a network platform, such as Microsoft Corporation's .NETTM platform.

BRIEF DESCRIPTION OF THE DRAWINGS

The same numbers are used throughout the drawings to reference like features.

Fig. 1 illustrates a network architecture in which clients access Web services over the Internet using conventional protocols.

Fig. 2 is a block diagram of a software architecture for Microsoft's .NETTM platform, which includes an application program interface (API).

Fig. 3 is a block diagram of unique namespaces supported by the API, as well as function classes of the various API functions.

Fig. 4 is a block diagram of an exemplary computer that may execute all or part of the software architecture.

BRIEF DESCRIPTION OF ACCOMPANYING COMPACT DISC

Accompanying this specification is a compact disc that stores a compiled HTML help file identifying the API (application program interface) for Microsoft's .NETTM network platform. The file is named "cpref.chm" and was created on June 8, 2001. It is 30.81 Mbytes in size. The file can be executed on a Windows®-based computing device (e.g., IBM-PC, or equivalent) that executes a

Windows®-brand operating system (e.g., Windows® NT, Windows® 98, Windows® 2000, etc.). The compiled HTML help file stored on the compact disk is hereby incorporated by reference.

Additionally, the APIs contained in the compiled HTML help file are also provided in approximately 100 separate text files named "NamespaceName.txt". The text files comply with the ASCII format.

The compact disc itself is a CD-ROM, and conforms to the ISO 9660 standard.

DETAILED DESCRIPTION

This disclosure addresses an application program interface (API) for a network platform upon which developers can build Web applications and services. More particularly, an exemplary API is described for the .NETTM platform created by Microsoft Corporation. The .NETTM platform is a software platform for Web services and Web applications implemented in the distributed computing environment. It represents the next generation of Internet computing, using open communication standards to communicate among loosely coupled Web services that are collaborating to perform a particular task.

In the described implementation, the .NET™ platform utilizes XML (extensible markup language), an open standard for describing data. XML is managed by the World Wide Web Consortium (W3C). XML is used for defining data elements on a Web page and business-to-business documents. XML uses a similar tag structure as HTML; however, whereas HTML defines how elements are displayed, XML defines what those elements contain. HTML uses predefined tags, but XML allows tags to be defined by the developer of the page. Thus,

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virtually any data items can be identified, allowing Web pages to function like database records. Through the use of XML and other open protocols, such as Simple Object Access Protocol (SOAP), the .NETTM platform allows integration of a wide range of services that can be tailored to the needs of the user. Although the embodiments described herein are described in conjunction with XML and other open standards, such are not required for the operation of the claimed invention. Other equally viable technologies will suffice to implement the inventions described herein.

EXEMPLARY NETWORK ENVIRONMENT

Fig. 1 shows a network environment 100 in which a network platform, such as the .NET™ platform, may be implemented. The network environment 100 includes representative Web services 102(1), ..., 102(N), which provide services that can be accessed over a network 104 (e.g., Internet). The Web services, referenced generally as number 102, are programmable application components that are reusable and interact programmatically over the network 104, typically through industry standard Web protocols, such as XML, SOAP, WAP (wireless application protocol), HTTP (hypertext transport protocol), and SMTP (simple mail transfer protocol) although other means of interacting with the Web services over the network may also be used, such as Remote Procedure Call (RPC) or object broker type technology. A Web service can be self-describing and is often defined in terms of formats and ordering of messages.

Web services 102 are accessible directly by other services (as represented by communication link 106) or a software application, such as Web application 110 (as represented by communication links 112 and 114). Each Web service 102

is illustrated as including one or more servers that execute software to handle requests for particular services. Such services often maintain databases that store information to be served back to requesters. Web services may be configured to perform any one of a variety of different services. Examples of Web services include login verification, notification, database storage, stock quoting, location directories, mapping, music, electronic wallet, calendar/scheduler, telephone listings, news and information, games, ticketing, and so on. The Web services can be combined with each other and with other applications to build intelligent interactive experiences.

The network environment 100 also includes representative client devices 120(1), 120(2), 120(3), 120(4), ..., 120(M) that utilize the Web services 102 (as represented by communication link 122) and/or the Web application 110 (as represented by communication links 124, 126, and 128). The clients may communicate with one another using standard protocols as well, as represented by an exemplary XML link 130 between clients 120(3) and 120(4).

The client devices, referenced generally as number 120, can be implemented many different ways. Examples of possible client implementations include, without limitation, portable computers, stationary computers, tablet PCs, televisions/set-top boxes, wireless communication devices, personal digital assistants, gaming consoles, printers, photocopiers, and other smart devices.

The Web application 110 is an application designed to run on the network platform and may utilize the Web services 102 when handling and servicing requests from clients 120. The Web application 110 is composed of one or more software applications 130 that run atop a programming framework 132, which are executing on one or more servers 134 or other computer systems. Note that a

portion of Web application 110 may actually reside on one or more of clients 120. Alternatively, Web application 110 may coordinate with other software on clients 120 to actually accomplish its tasks.

The programming framework 132 is the structure that supports the applications and services developed by application developers. It permits multilanguage development and seamless integration by supporting multiple languages. It supports open protocols, such as SOAP, and encapsulates the underlying operating system and object model services. The framework provides a robust and secure execution environment for the multiple programming languages and offers secure, integrated class libraries.

The framework 132 is a multi-tiered architecture that includes an application program interface (API) layer 142, a common language runtime (CLR) layer 144, and an operating system/services layer 146. This layered architecture allows updates and modifications to various layers without impacting other portions of the framework. A common language specification (CLS) 140 allows designers of various languages to write code that is able to access underlying library functionality. The specification 140 functions as a contract between language designers and library designers. By adhering to the CLS, libraries written in one language can be directly accessible to code modules written in other languages to achieve seamless integration between code modules written in one language and code modules written in another language.

The API layer 142 presents groups of functions that the applications 130 can call to access the resources and services provided by layer 146. By exposing the API functions for a network platform, application developers can create Web applications for distributed computing systems that make full use of the network

resources and other Web services, without needing to understand the complex interworkings of how those network resources actually operate or are made available. Moreover, the Web applications can be written in any number of programming languages, and translated into an intermediate language supported by the common language runtime 144 and included as part of the common language specification 140. In this way, the API layer 142 can provide methods for a wide and diverse variety of applications.

Additionally, the framework 132 can be configured to support API calls placed by remote applications executing remotely from the servers 134 that host the framework. Representative applications 148(1) and 148(2) residing on clients 120(3) and 120(M), respectively, can use the API functions by making calls directly, or indirectly, to the API layer 142 over the network 104.

The framework may also be implemented at the clients. Client 120(3) represents the situation where a framework 150 is implemented at the client. This framework may be identical to server-based framework 132, or modified for client purposes. Alternatively, the client-based framework may be condensed in the event that the client is a limited or dedicated function device, such as a cellular phone, personal digital assistant, handheld computer, or other communication/computing device.

DEVELOPERS' PROGRAMMING FRAMEWORK

Fig. 2 shows the programming framework 132 in more detail. The common language specification (CLS) layer 140 supports applications written in a variety of languages 130(1), 130(2), 130(3), 130(4), ..., 130(K). Such application languages include Visual Basic, C++, C#, COBOL, Jscript, Perl, Eiffel, Python,

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and so on. The common language specification 140 specifies a subset of features or rules about features that, if followed, allow the various languages to communicate. For example, some languages do not support a given type (e.g., an "int*" type) that might otherwise be supported by the common language runtime 144. In this case, the common language specification 140 does not include the type. On the other hand, types that are supported by all or most languages (e.g., the "int[]" type) is included in common language specification 140 so library developers are free to use it and are assured that the languages can handle it. This ability to communicate results in seamless integration between code modules written in one language and code modules written in another language. Since different languages are particularly well suited to particular tasks, the seamless integration between languages allows a developer to select a particular language for a particular code module with the ability to use that code module with modules written in different languages. The common language runtime 144 allow seamless multi-language development, with cross language inheritance, and provide a robust and secure execution environment for the multiple programming languages. For more information on the common language specification 140 and the common language runtime 144, the reader is directed to co-pending applications entitled "Method and System for Compiling Multiple Languages", filed 6/21/2000 (serial number 09/598,105) and "Unified Data Type System and Method" filed 7/10/2000 (serial number 09/613,289), which are incorporated by reference.

The framework 132 encapsulates the operating system 146(1) (e.g., Windows®-brand operating systems) and object model services 146(2) (e.g., Component Object Model (COM) or Distributed COM). The operating system 146(1) provides conventional functions, such as file management, notification,

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event handling, user interfaces (e.g., windowing, menus, dialogs, etc.), security, authentication, verification, processes and threads, memory management, and so on. The object model services 146(2) provide interfacing with other objects to perform various tasks. Calls made to the API layer 142 are handed to the common language runtime layer 144 for local execution by the operating system 146(1) and/or object model services 146(2).

The API 142 groups API functions into multiple namespaces. Namespaces essentially define a collection of classes, interfaces, delegates, enumerations, and structures, which are collectively called "types", that provide a specific set of related functionality. A class represents managed heap allocated data that has reference assignment semantics. A delegate is an object oriented function pointer. An enumeration is a special kind of value type that represents named constants. A structure represents static allocated data that has value assignment semantics. An interface defines a contract that other types can implement.

By using namespaces, a designer can organize a set of types into a hierarchical namespace. The designer is able to create multiple groups from the set of types, with each group containing at least one type that exposes logically related functionality. In the exemplary implementation, the API 142 is organized into four root namespaces: a first namespace 200 for Web applications, a second namespace 202 for client applications, a third namespace 204 for data and XML, and a fourth namespace 206 for base class libraries (BCLs). Each group can then be assigned a name. For instance, types in the Web applications namespace 200 are assigned the name "Web", and types in the data and XML namespace 204 can be assigned names "Data" and "XML" respectively. The named groups can be organized under a single "global root" namespace for system level APIs, such as

an overall System namespace. By selecting and prefixing a top level identifier, the types in each group can be easily referenced by a hierarchical name that includes the selected top level identifier prefixed to the name of the group containing the type. For instance, types in the Web applications namespace 200 can be referenced using the hierarchical name "System.Web". In this way, the individual namespaces 200, 202, 204, and 206 become major branches off of the System namespace and can carry a designation where the individual namespaces are prefixed with a designator, such as a "System." prefix.

The Web applications namespace 200 pertains to Web based functionality, such as dynamically generated Web pages (e.g., Microsoft's Active Server Pages (ASP)). It supplies types that enable browser/server communication. The client applications namespace 202 pertains to drawing and client side UI functionality. It supplies types that enable drawing of two-dimensional (2D) and three-dimensional (3D) drawings, imaging, and printing, as well as the ability to construct window forms, menus, boxes, and so on.

The data and XML namespace 204 relates to connectivity to data sources and XML functionality. It supplies classes, interfaces, delegates, and enumerations that enable security, specify data types, and serialize objects into XML format documents or streams. The base class libraries (BCL) namespace 206 pertains to basic system and runtime functionality. It contains the fundamental types and base classes that define commonly-used value and reference data types, events and event handlers, interfaces, attributes, and processing exceptions.

In addition to the framework 132, programming tools 210 are provided to assist the developer in building Web services and/or applications. One example of

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the programming tools 200 is Visual Studio™, a multi-language suite of programming tools offered by Microsoft Corporation.

ROOT API NAMESPACES

Fig. 3 shows the API 142 and its four root namespaces in more detail. In one embodiment, the namespaces are identified according to a hierarchical naming convention in which strings of names are concatenated with periods. For instance, the Web applications namespace 200 is identified by the root name "System.Web". Within the "Sytem.Web" namespace is another namespace for Web services, identified as "System.Web.Services", which further identifies known description as for a namespace another "System.Web.Services.Description". With this naming convention in mind, the following provides a general overview of selected namespaces of the API 142, although other naming conventions could be used with equal effect.

The Web applications namespace 200 ("System.Web") defines additional namespaces, including:

A services namespace 300 ("System.Web.Services") containing classes that enable a developer to build and use Web services. The services namespace 300 defines additional namespaces, including a description namespace 302 ("System.Web.Services.Description") containing classes that enable a developer to publicly describe a Web service via a service description language (such as WSDL, a specification available from the W3C), a discovery namespace 304 ("System.Web.Services.Discovery") containing classes that allow

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Web service consumers to locate available Web Services on a Web server, and a protocols namespace 306 ("System.Web.Services.Protocols") containing classes that define the protocols used to transmit data across a network during communication between Web service clients and the Web service itself.

- A caching namespace 308 ("System.Web.Caching") containing classes that enable developers to decrease Web application response time through temporarily caching frequently used resources on the server. This includes ASP.NET pages, web services, and user controls. (ASP.NET is the updated version of Microsoft's ASP technology.) Additionally, a cache dictionary is available for developers to store frequently used resources, such as hash tables and other data structures.
- A configuration namespace 310 ("System.Web.Configuration")
 containing classes that are used to read configuration data in for an
 application.
- developers to create controls and pages that will appear in Web applications as user interfaces on a Web page. This namespace includes the control class, which provides all web based controls, whether those encapsulating HTML elements, higher level Web controls, or even custom User controls, with a common set of functionality. Also provided are classes which provide the web forms server controls data binding functionality, the ability to save

the view state of a given control or page, as well as parsing functionality for both programmable and literal controls. Within the UI namespace 312 are two additional namespaces: an HTML controls namespace 314 ("System.Web.UI.HtmlControls") containing classes that permit developers to interact with types that encapsulates html 3.2 elemtents create HTML controls, and a Web controls namespace 316 ("System.Web.UI.WeblControls") containing classes that allow developers to create higher level Web controls.

- A security namespace 318 ("System.Web.Security") containing classes used to implement security in web server applications, such as basic authentication, challenge response authentication, and role based authentication.
- A session state namespace 320 ("System.Web.SessionState") containing classes used to access session state values (i.e., data that lives across requests for the lifetime of the session) as well as session-level settings and lifetime management methods.

The client applications namespace 202 is composed of two namespaces:

• A windows forms namespace 322 ("System.Windows.Forms") containing classes for creating Windows®-based client applications that take full advantage of the rich user interface features available in the Microsoft Windows® operating system, such as the ability to drag and drop screen elements. Such classes may include wrapped

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APIs available in the Microsoft Windows® operating system that are used in a windowing UI environment. Within this namespace are a design namespace 324 ("System.Windows.Forms.Design") that contains classes to extend design-time support for Windows forms 326 model namespace component and a ("System.Windows.Forms.ComponentModel") that contains the windows form implementation of the general component model This namespace contains defined in System.ComponentModel. designer tools, such as Visual Studio, which offer a rich experience for developers at design time.

A drawing namespace 328 ("System.Drawing") containing classes for graphics functionality. The drawing namespace 328 includes a 2D drawing namespace 330 ("System.Drawing.Drawing2D") that contains classes and enumerations to provide advanced 2-dimmensional and vector graphics functionality, an imaging namespace 332 ("System.Drawing.Imaging") that contains classes for advanced imaging functionality, a printing namespace 334 ("System.Drawing.Printing") that contains classes to permit developers to customize printing, and a text namespace 336 ("System.Drawing.Text") that contains classes for advanced typography functionality.

The data and XML namespace 204 is composed of two namespaces:

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A data namespace 340 ("System.Data") containing classes that enable developers to build components that efficiently manage data from multiple data sources. It implements an architecture that, in a disconnected scenario (such as the Internet), provides tools to request, update, and reconcile data in multiple tier systems. The data namespace 340 includes a common namespace 342 that contains types shared by data providers. A data provider describes a collection of types used to access a data source, such as a database, in the managed space. The data namespace 340 also includes an OLE DB namespace 344 that contains types pertaining to data used in object-oriented databases (e.g., Microsoft's SQL Server), and a SQL client namespace 346 that contains types pertaining to data used by SQL clients. The data namespace also includes a SQL types namespace 348 ("System.Data.SqlTypes") that contains classes for native data types within Microsoft's SQL Server. provide a safer, faster alternative to other data types. Using the objects within this namespace helps prevent type conversion errors caused in situations where loss of precision could occur. Because other data types are converted to and from SQL types behind the scenes, explicitly creating and using objects within this namespace results in faster code as well.

An XML namespace 350 ("System.XML") containing classes that
provide standards-based support for processing XML. The supported
standards include XML (e.g., version 1.0), XML Namespaces (both
stream level and DOM), XML Schemas, XPath expressions, XSL/T

transformations, DOM Level 2 Core, and SOAP (e.g., version 1.1). The XML namespace 350 includes an XSLT namespace 352 ("System.XML.Xsl") that contains classes and enumerations to support XSLT (Extensible Stylesheet Language Transformations), an Xpath namespace 354 ("System.XML.Xpath") that contains an XPath parser and evaluation engine, and a serialization namespace 356 ("System.XML.Serialization") that contains classes used to serialize objects into XML format documents or streams.

The base class library namespace 206 ("System") includes the following namespaces:

- A collections namespace 360 ("System.Collections") containing interfaces and classes that define various collections of objects, such as lists, queues, arrays, hash tables and dictionaries.
- A configuration namespace 362 ("System.Configuration")
 containing classes and interfaces that allow developers to
 programmatically access configuration settings and handle errors in
 configuration files.
- A diagnostics namespace 364 ("System.Diagnostics") containing classes that are used to debug applications and to trace code execution. The namespace allows developers to start system processes, read and write to event logs, and monitor system performance using performance counters.

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- A globalization namespace 366 ("System.Globalization") containing classes that define culture-related information, including the language, the country/region, the calendars in use, the format patterns for dates, currency and numbers, and the sort order for strings.
- An I/O namespace 368 ("System.IO") containing the infrastructure pieces to operate with the intput/output of data streams, files, and directories. This namespace includes a model for working with streams of bytes, higher level readers and writers which consume those bytes, various constructions or implementations of the streams (e.g., FileStream and MemoryStream) and, a set of utility classes for working with files and directories.
 - A net namespace 370 ("System.Net") providing an extensive set of classes for building network-enabled application, referred to as the Net Class Libraries (NCL). One element to the design of the Net Class Libraries is an extensible, layered approach to exposing networking functionality. The NCL stack contains three basic layers. A base layer (System.Net.Socket) provides access to an interface to TCP/IP, the communications protocol of UNIX networks and the Internet. One example of such an interface is the "WinSock API" from Microsoft Corporation. The next layer is the Transport Protocol classes, which support such transport protocols as TCP and UDP. Developers may write their own protocol classes to provide support for protocols such as IGMP and ICMP. The third layer is the Web request, which provides an abstract factory pattern for the

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creation of other protocol classes. The NCL provides implementations for Hyper Text Transport Protocol (HTTP).

- A reflection namespace ("System.Reflection") 372 containing types that provide a managed view of loaded types, methods, and fields, with the ability to dynamically create and invoke types.
- A resources namespace 374 ("System.Resources") containing classes and interfaces that allow developers to create, store and manage various culture-specific resources used in an application.
- A security namespace 376 ("System.Security") supporting the underlying structure of the security system, including interfaces, attributes, exceptions, and base classes for permissions.
- A service process namespace 378 ("System.ServiceProcess") containing classes that allow developers to install and run services. Services are long-running executables that run without a user interface. They can be installed to run under a system account that enables them to be started at computer reboot. Services whose implementation is derived from processing in one class can define specific behavior for start, stop, pause, and continue commands, as well as behavior to take when the system shuts down.
- text namespace 380 ("System.Text") containing classes representing various types of encodings (e.g., ASCII, Unicode, UTF-7, and UTF-8), abstract base classes for converting blocks of characters to and from blocks of bytes, and a helper class that manipulates and formats string objects without creating intermediate instances.

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- A threading namespace 382 ("System.Threading") containing classes and interfaces that enable multi-threaded programming. The threading namespace includes a ThreadPool class that manages groups of threads, a Timer class that enables a delegate to be called after a specified amount of time, and a Mutex class for synchronizing mutually-exclusive threads. This namespace also provides classes for thread scheduling, wait notification, and deadlock resolution.
- A runtime namespace 384 ("System.Runtime") containing multiple namespaces concerning runtime features, including an interoperation services namespace 386 ("System.Runtime.InteropServices") that contains a collection of classes useful for accessing COM objects. The types in the InteropServices namespace fall into the following areas of functionality: attributes, exceptions, managed definitions of COM types, wrappers, type converters, and the Marshal class. The runtime namespace 384 further includes a remoting namespace 388 ("System.Runtime.Remoting") that contains classes and interfaces allowing developers to create and configure distributed applications. Another namespace within the runtime namespace 384 is a serialization namespace 390 ("System.Runtime.Serialization") that contains classes used for serializing and deserializing objects. Serialization is the process of converting an object or a graph of objects into a linear sequence of bytes for either storage or transmission to another location.

Portions of the base class library namespace 206 ("System") are discussed in additional detail below.

SYSTEM NAMESPACE

The System namespace is the root namespace; it offers common functionality that is needed by a wide variety of application types. The System namespace includes common base classes, types and utility classes that will be needed in substantially all applications (that is, in nearly every application).

The System namespace provides commonly used base types. It includes Object, which is the ultimate base class for all types in the system. Object defines the base set of services that any type in the system is able to provide. Not surprisingly, Object provides default implementations for all of these services. The ValueType class is a reference type that serves as the base class for all value types. It customizes the implementations of the virtual methods on Object so that they are more appropriate for value types. Enum is a reference type that derives from ValueType and is the base class for all enums in the system. It further customizes the virtual methods from ValueType to make them specific to deal with exactly one integral field of instance data. Enum also offers utility methods for formatting and parsing of enum values. The ultimate base class for all exceptions in the system, the Exception class, is also in the System namespace. All custom attributes derive from the Attribute base class that contains utility methods for reading custom attribute off of reflection elements.

In addition, the base data types are also found in the system namespace. These are types that are so commonly used that languages typically use key words

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as aliases for them. These classes represent those types and provide formatting and parsing, comparing and coercion support.

NET Framework built-in value types

Category	Class name	Description	Visual Basic data type	C# data type	Managed Extensions for C++ data type
Integer	Byte	An 8-bit unsigned integer.	Byte	byte	char
THE REAL PROPERTY OF THE PROPE	Sbyte	An 8-bit signed integer. Not CLS compliant.	Sbyte No built-in type.	sbyte	signed char
	Int16	- p	Short	short	short
	Int32	A 32-bit signed integer.	Integer	int	int -or- long
	Int64	A 64-bit signed integer.	Long	, long	int64
	UInt16	A 16-bit unsigned integer. Not CLS compliant.	UInt16 No built-in type.	ushort	unsigned short
	UInt32	A 32-bit unsigned integer. Not CLS compliant.	UInt32 No built-in type.	; uint	unsigned int -or- unsigned long
	UInt64	A 64-bit unsigned integer. Not CLS compliant.	UInt64 No built-in type.	ulong	unsigned int64
Floating point	Single	A single- precision (32- bit) floating- point number.	Single	float	float

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	Double	A double- precision (64- bit) floating- point number.	Double	double	double
Logical	Boolean	A Boolean value (true or false).	Boolean	bool	bool
Other	Char	A Unicode (16- bit) character.	Char	, char	wchar_t
	Decimal	A 96-bit decimal value.	Decimal	decimal	Decimal
•	Single	A signed integer, that is, a 32 bit value on a 32-bit platform and a 64 bit value on a 64-bit platform.	IntPtr No built-in type.	IntPtr No built-in type.	IntPtr No built-in type.
	Double	A native-sized unsigned integer. Not CLS compliant.	UIntPtr No built-in type.	UIntPtr No built-in type.	UIntPtr No built-in type.

Other classes provide services including supervision of managed and unmanaged applications, mathematics, remote and local program invocation, data type conversion, and application environment management.

The following is a more detailed description of the System namespace, identifying various classes, interfaces, enumerations, and so forth contained in the System namespace.

System

This namespace contains fundamental classes and base classes that define commonly-used value and reference data types, events and event handlers, interfaces, attributes, and processing exceptions.

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3	This namespace contains fundamental classes and base classes that define
4	commonly-used value and reference data types, events and event handlers,
5	interfaces, attributes, and processing exceptions.
6	_AppDomain interface (System)
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9	Description
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11	Properties:
12	BaseDirectory
13	
14	[C#] string BaseDirectory {get;}
15	[C++] String* get_BaseDirectory();
16	[VB] ReadOnly Property BaseDirectory As String
17	[JScript] abstract function get BaseDirectory(): String;
18	
19	Description
20	
21	DynamicDirectory
22	

[C#] string DynamicDirectory {get;}

[C++] String* get_DynamicDirectory();

[VB] ReadOnly Property DynamicDirectory As String

1	[JScript] abstract function get DynamicDirectory() : String;
2	
3	Description
4	
5	Evidence
6	
7	[C#] Evidence Evidence {get;}
8	[C++] Evidence* get_Evidence();
9	[VB] ReadOnly Property Evidence As Evidence
10	[JScript] abstract function get Evidence() : Evidence;
11	
12	Description
13	
14	FriendlyName
15	
16	[C#] string FriendlyName {get;}
17	[C++] String* get_FriendlyName();
18	[VB] ReadOnly Property FriendlyName As String
19	[JScript] abstract function get FriendlyName() : String;
20	
21	Description
22	
23	RelativeSearchPath
24	
25	[C#] string RelativeSearchPath {get;}

1	[C++] String* get_RelativeSearchPath();
2	[VB] ReadOnly Property RelativeSearchPath As String
3	[JScript] abstract function get RelativeSearchPath(): String;
4	
5	Description
6	
7	ShadowCopyFiles
8	
9	[C#] bool ShadowCopyFiles {get;}
10	[C++] bool get_ShadowCopyFiles();
11	[VB] ReadOnly Property ShadowCopyFiles As Boolean
12	[JScript] abstract function get ShadowCopyFiles(): Boolean;
13	
14	Description
15	
16	
17	[C#] event AssemblyLoadEventHandler AssemblyLoad;
18	[C++]event AssemblyLoadEventHandler* AssemblyLoad;
19	[VB] Event AssemblyLoad As AssemblyLoadEventHandler
20	
21	Description
22	
23	
24	[C#] event ResolveEventHandler AssemblyResolve;
25	[C++]event ResolveEventHandler* AssemblyResolve;

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1	[VB] Event AssemblyResolve As ResolveEventHandler
2	
3	Description
4	
5	
6	[C#] event EventHandler DomainUnload;
7	[C++]event EventHandler* DomainUnload;
8	[VB] Event DomainUnload As EventHandler
9	
10	Description
11	
12	
13	[C#] event EventHandler ProcessExit;
14	[C++]event EventHandler* ProcessExit;
15	[VB] Event ProcessExit As EventHandler
16	
17	Description
18	
19	
20	[C#] event ResolveEventHandler ResourceResolve;
21	[C++]event ResolveEventHandler* ResourceResolve;
22	[VB] Event ResourceResolve As ResolveEventHandler
23	
24	Description
25	

11	
1	
2	[C#] event ResolveEventHandler TypeResolve;
3	[C++]event ResolveEventHandler* TypeResolve;
4	[VB] Event TypeResolve As ResolveEventHandler
5	
6	Description
7	
8	
9	[C#] event UnhandledExceptionEventHandler UnhandledException;
10	[C++]event UnhandledExceptionEventHandler* UnhandledException;
11	[VB] Event UnhandledException As UnhandledExceptionEventHandler
12	
13	Description
14	
15	Methods:
16	AppendPrivatePath
17	
18	[C#] void AppendPrivatePath(string path);
19	[C++] void AppendPrivatePath(String* path);
20	[VB] Sub AppendPrivatePath(ByVal path As String)
21	[JScript] function AppendPrivatePath(path : String);
22	
23	Description
24	
25	ClearPrivatePath
	2 3 4 4 5 5 6 6 7 8 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

```
1
    [C#] void ClearPrivatePath();
    [C++] void ClearPrivatePath();
    [VB] Sub ClearPrivatePath()
    [JScript] function ClearPrivatePath();
6
    Description
7
8
           ClearShadowCopyPath
10
    [C#] void ClearShadowCopyPath();
11
    [C++] void ClearShadowCopyPath();
12
    [VB] Sub ClearShadowCopyPath()
13
    [JScript] function ClearShadowCopyPath();
14
15
    Description
16
17
           CreateInstance
18
19
    [C#] ObjectHandle CreateInstance(string assemblyName, string typeName);
20
    [C++] ObjectHandle* CreateInstance(String* assemblyName, String* typeName);
21
    [VB] Function CreateInstance(ByVal assemblyName As String, ByVal typeName
22
    As String) As ObjectHandle
23
    [JScript] function CreateInstance(assemblyName : String, typeName : String) :
24
    ObjectHandle;
25
```

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CreateInstance

[C#] ObjectHandle CreateInstance(string assemblyName, string typeName, object[] activationAttributes);

[C++] ObjectHandle* CreateInstance(String* assemblyName, String* typeName, Object* activationAttributes gc[]);

[VB] Function CreateInstance(ByVal assemblyName As String, ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle [JScript] function CreateInstance(assemblyName: String, typeName: String, activationAttributes : Object[]) : ObjectHandle;

Description

CreateInstance

[C#] ObjectHandle CreateInstance(string assemblyName, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes); [C++] ObjectHandle* CreateInstance(String* assemblyName, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes);

1	[VB] Function CreateInstance(ByVal assemblyName As String, ByVal typeName
2	As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As BindingFlags,
3	ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo,
4	ByVal activationAttributes() As Object, ByVal securityAttributes As Evidence)
5	As ObjectHandle
6	[JScript] function CreateInstance(assemblyName : String, typeName : String,
7	ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args: Object[]
8	culture : CultureInfo, activationAttributes : Object[], securityAttributes :
9	Evidence): ObjectHandle;
10	
11	Description
12	
13	CreateInstanceFrom
14	
15	[C#] ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName);
16	[C++] ObjectHandle* CreateInstanceFrom(String* assemblyFile, String*
17	typeName);
18	[VB] Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal
19	typeName As String) As ObjectHandle
20	[JScript] function CreateInstanceFrom(assemblyFile : String, typeName : String)
21	ObjectHandle;
22	
23	Description
24	
25	CreateInstanceFrom

[C#] ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, object[] activationAttributes);
[C++] ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, Object* activationAttributes __gc[]);
[VB] Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle
[JScript] function CreateInstanceFrom(assemblyFile: String, typeName: String, activationAttributes: Object[]): ObjectHandle;

Description

CreateInstanceFrom

[C#] ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes); [C++] ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes); [VB] Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal securityAttributes As

1	Evidence) As ObjectHandle
2	[JScript] function CreateInstanceFrom(assemblyFile : String, typeName : String,
3	ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args: Object[]
4	culture : CultureInfo, activationAttributes : Object[], securityAttributes :
5	Evidence): ObjectHandle;
6	
7	Description
8	
9	DefineDynamicAssembly
10	
11	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
12	AssemblyBuilderAccess access);
13	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
14	AssemblyBuilderAccess access);
15	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
16	access As AssemblyBuilderAccess) As AssemblyBuilder
17	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
18	AssemblyBuilderAccess): AssemblyBuilder;
19	
20	Description
21	
22	DefineDynamicAssembly
23	
24	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
25	AssemblyBuilderAccess access, Evidence evidence);

1	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
2	AssemblyBuilderAccess access, Evidence* evidence);
3	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
4	access As AssemblyBuilderAccess, ByVal evidence As Evidence) As
5	AssemblyBuilder
6	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
7	AssemblyBuilderAccess, evidence : Evidence) : AssemblyBuilder;
8	
9	Description
10	
11	DefineDynamicAssembly
12	
13	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
14	AssemblyBuilderAccess access, string dir);
15	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
16	AssemblyBuilderAccess access, String* dir);
17	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
18	access As AssemblyBuilderAccess, ByVal dir As String) As AssemblyBuilder
19	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
20	AssemblyBuilderAccess, dir: String): AssemblyBuilder;
21	
22	Description
23	
24	DefineDynamicAssembly
25	

2	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
3	AssemblyBuilderAccess access, string dir, Evidence evidence);
4	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
5	AssemblyBuilderAccess access, String* dir, Evidence* evidence);
6	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
7	access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As
8	Evidence) As AssemblyBuilder
9	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
10	AssemblyBuilderAccess, dir: String, evidence: Evidence): AssemblyBuilder;
11	
12	Description
13	
14	DefineDynamicAssembly
15	
16	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
17	AssemblyBuilderAccess access, PermissionSet requiredPermissions,
18	PermissionSet optionalPermissions, PermissionSet refusedPermissions);
19	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
20	AssemblyBuilderAccess access, PermissionSet* requiredPermissions,
21	PermissionSet* optionalPermissions, PermissionSet* refusedPermissions);
22	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal

access As AssemblyBuilderAccess, ByVal requiredPermissions As PermissionSet,

ByVal optionalPermissions As PermissionSet, ByVal refusedPermissions As

PermissionSet) As AssemblyBuilder

[JScript] function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, requiredPermissions: PermissionSet, 2 optional Permissions: PermissionSet, refusedPermissions: PermissionSet): 3 AssemblyBuilder; 5 Description 6 7 **DefineDynamicAssembly** 8 9 [C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name, 10 AssemblyBuilderAccess access, Evidence evidence, PermissionSet 11 requiredPermissions, PermissionSet optionalPermissions, PermissionSet 12 refusedPermissions); 13 [C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name, 14 AssemblyBuilderAccess access, Evidence* evidence, PermissionSet* 15 requiredPermissions, PermissionSet* optionalPermissions, PermissionSet* 16 refusedPermissions); 17 [VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal 18 access As AssemblyBuilderAccess, ByVal evidence As Evidence, ByVal 19 requiredPermissions As PermissionSet, ByVal optionalPermissions As 20 PermissionSet, ByVal refusedPermissions As PermissionSet) As AssemblyBuilder 21 [JScript] function DefineDynamicAssembly(name : AssemblyName, access : 22 AssemblyBuilderAccess, evidence: Evidence, requiredPermissions: 23 PermissionSet, optionalPermissions: PermissionSet, refusedPermissions: 24

PermissionSet): AssemblyBuilder;

Description

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DefineDynamicAssembly

[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir, PermissionSet requiredPermissions, PermissionSet optionalPermissions, PermissionSet refusedPermissions); [C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, String* dir, PermissionSet* requiredPermissions, PermissionSet* optionalPermissions, PermissionSet* refusedPermissions); [VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String, ByVal requiredPermissions As PermissionSet, ByVal optionalPermissions As PermissionSet, ByVal refusedPermissions As PermissionSet) As AssemblyBuilder [JScript] function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, dir: String, requiredPermissions: PermissionSet, optional Permissions: PermissionSet, refusedPermissions: PermissionSet): AssemblyBuilder;

Description

DefineDynamicAssembly

[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,

1	AssemblyBuilderAccess access, string dir, Evidence evidence, PermissionSet
2	requiredPermissions, PermissionSet optionalPermissions, PermissionSet
3	refusedPermissions);
4	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
5	AssemblyBuilderAccess access, String* dir, Evidence* evidence, PermissionSet*
6	requiredPermissions, PermissionSet* optionalPermissions, PermissionSet*
7	refusedPermissions);
8	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
9	access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As
10	Evidence, ByVal requiredPermissions As PermissionSet, ByVal
11	optionalPermissions As PermissionSet, ByVal refusedPermissions As
12	PermissionSet) As AssemblyBuilder
13	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
14	AssemblyBuilderAccess, dir: String, evidence: Evidence, requiredPermissions:
15	PermissionSet, optionalPermissions: PermissionSet, refusedPermissions:
16	PermissionSet): AssemblyBuilder;
17	
18	Description
19	
20	DefineDynamicAssembly
21	
22	[C#] AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
23	AssemblyBuilderAccess access, string dir, Evidence evidence, PermissionSet
24	requiredPermissions, PermissionSet optionalPermissions, PermissionSet
25	refusedPermissions, bool isSynchronized);
	,

1	[C++] AssemblyBuilder* DefineDynamicAssembly(AssemblyName* name,
2	AssemblyBuilderAccess access, String* dir, Evidence* evidence, PermissionSet*
3	requiredPermissions, PermissionSet* optionalPermissions, PermissionSet*
4	refusedPermissions, bool isSynchronized);
5	[VB] Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal
6	access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As
7	Evidence, ByVal requiredPermissions As PermissionSet, ByVal
8	optionalPermissions As PermissionSet, ByVal refusedPermissions As
9	PermissionSet, ByVal isSynchronized As Boolean) As AssemblyBuilder
10	[JScript] function DefineDynamicAssembly(name : AssemblyName, access :
11	AssemblyBuilderAccess, dir: String, evidence: Evidence, requiredPermissions:
12	PermissionSet, optionalPermissions: PermissionSet, refusedPermissions:
13	PermissionSet, isSynchronized : Boolean) : AssemblyBuilder;
14	
15	Description
16	
17	DoCallBack
18	
19	[C#] void DoCallBack(CrossAppDomainDelegate theDelegate);
20	[C++] void DoCallBack(CrossAppDomainDelegate* theDelegate);
21	[VB] Sub DoCallBack(ByVal theDelegate As CrossAppDomainDelegate)
22	[JScript] function DoCallBack(theDelegate : CrossAppDomainDelegate);
23	
24	Description
25	

1	Equals
2	
3	[C#] bool Equals(object other);
4	[C++] bool Equals(Object* other);
5	[VB] Function Equals(ByVal other As Object) As Boolean
6	[JScript] function Equals(other: Object): Boolean;
7	
8	Description
9	
10	ExecuteAssembly
11	
12	[C#] int ExecuteAssembly(string assemblyFile);
13	[C++] int ExecuteAssembly(String* assemblyFile);
14	[VB] Function ExecuteAssembly(ByVal assemblyFile As String) As Integer
15	[JScript] function ExecuteAssembly(assemblyFile: String): int;
16	
17	Description
18	
19	ExecuteAssembly
20	
21	[C#] int ExecuteAssembly(string assemblyFile, Evidence assemblySecurity);
22	[C++] int ExecuteAssembly(String* assemblyFile, Evidence* assemblySecurity);
23	[VB] Function ExecuteAssembly(ByVal assemblyFile As String, ByVal
24	assemblySecurity As Evidence) As Integer
25	[JScript] function ExecuteAssembly(assemblyFile: String, assemblySecurity:

```
Evidence): int;
2
    Description
3
4
           Execute Assembly
5
6
    [C#] int ExecuteAssembly(string assemblyFile, Evidence assemblySecurity,
7
    string[] args);
8
    [C++] int ExecuteAssembly(String* assemblyFile, Evidence* assemblySecurity,
9
    String* args gc[]);
10
    [VB] Function ExecuteAssembly(ByVal assemblyFile As String, ByVal
11
    assemblySecurity As Evidence, ByVal args() As String) As Integer
12
    [JScript] function ExecuteAssembly(assemblyFile: String, assemblySecurity:
13
    Evidence, args : String[]) : int;
14
15
    Description
16
17
           GetAssemblies
18
19
    [C#] Assembly[] GetAssemblies();
20
    [C++] Assembly* GetAssemblies() [];
21
    [VB] Function GetAssemblies() As Assembly()
22
    [JScript] function GetAssemblies(): Assembly[];
23
24
    Description
```

1	
2	GetData
3	
4	[C#] object GetData(string name);
5	[C++] Object* GetData(String* name);
6	[VB] Function GetData(ByVal name As String) As Object
7	[JScript] function GetData(name : String) : Object;
8	
9	Description
10	
11	GetHashCode
12	
13	[C#] int GetHashCode();
14	[C++] int GetHashCode();
15	[VB] Function GetHashCode() As Integer
16	[JScript] function GetHashCode(): int;
17	
18	Description
19	
20	GetLifetimeService
21	
22	[C#] object GetLifetimeService();
23	[C++] Object* GetLifetimeService();
24	[VB] Function GetLifetimeService() As Object
25	[JScript] function GetLifetimeService() : Object;

1	
2	Description
3	
4	GetType
5	
6	[C#] Type GetType();
7	[C++] Type* GetType();
8	[VB] Function GetType() As Type
9	[JScript] function GetType(): Type;
10	
11	Description
12	
13	InitializeLifetimeService
14	
15	[C#] object InitializeLifetimeService();
16	[C++] Object* InitializeLifetimeService();
17	[VB] Function InitializeLifetimeService() As Object
18	[JScript] function InitializeLifetimeService(): Object;
19	
20	Description
21	
22	Load
23	
24	[C#] Assembly Load(AssemblyName assemblyRef);
26	

	1	[VB] Function Load(ByVal assemblyRef As AssemblyName) As Assembly
	2	[JScript] function Load(assemblyRef: AssemblyName): Assembly;
	3	
	4	Description
	5	
	6	Load
	7	
	8	[C#] Assembly Load(byte[] rawAssembly);
e přeg c přeg	9	[C++] Assembly* Load(unsigned char rawAssemblygc[]);
100 100 100 100 100	10	[VB] Function Load(ByVal rawAssembly() As Byte) As Assembly
Row String Room Rook Strike Strike Strike Strike	11	[JScript] function Load(rawAssembly : Byte[]) : Assembly;
w A A	12	
	13	Description
er and and the and and	14	
\$ 100 M	15	Load
Às.	16	
	17	[C#] Assembly Load(string assemblyString);
	18	[C++] Assembly* Load(String* assemblyString);
	19	[VB] Function Load(ByVal assemblyString As String) As Assembly
	20	[JScript] function Load(assemblyString : String) : Assembly;
	21	
	22	Description
	23	
	24	Load
	25	

```
1
    [C#] Assembly Load(AssemblyName assemblyRef, Evidence assemblySecurity);
    [C++] Assembly* Load(AssemblyName* assemblyRef, Evidence*
    assemblySecurity);
    [VB] Function Load(ByVal assemblyRef As AssemblyName, ByVal
    assemblySecurity As Evidence) As Assembly
6
    [JScript] function Load(assemblyRef: AssemblyName, assemblySecurity:
7
    Evidence): Assembly;
8
9
    Description
10
11
          Load
12
13
    [C#] Assembly Load(byte[] rawAssembly, byte[] rawSymbolStore);
14
    [C++] Assembly* Load(unsigned char rawAssembly __gc[], unsigned char
15
    rawSymbolStore gc[]);
16
    [VB] Function Load(ByVal rawAssembly() As Byte, ByVal rawSymbolStore() As
17
    Byte) As Assembly
18
    [JScript] function Load(rawAssembly : Byte[], rawSymbolStore : Byte[]) :
19
    Assembly;
20
21
    Description
22
23
          Load
24
25
```

1	
2	[C#] Assembly Load(string assemblyString, Evidence assemblySecurity);
3	[C++] Assembly* Load(String* assemblyString, Evidence* assemblySecurity);
4	[VB] Function Load(ByVal assemblyString As String, ByVal assemblySecurity
5	As Evidence) As Assembly
6	[JScript] function Load(assemblyString : String, assemblySecurity : Evidence) :
7	Assembly;
8	
9	Description
10	
11	Load
12	
13	[C#] Assembly Load(AssemblyName assemblyRef, Evidence assemblySecurity
14	string callerLocation);
15	[C++] Assembly* Load(AssemblyName* assemblyRef, Evidence*
16	assemblySecurity, String* callerLocation);
17	[VB] Function Load(ByVal assemblyRef As AssemblyName, ByVal
18	assemblySecurity As Evidence, ByVal callerLocation As String) As Assembly
19	[JScript] function Load(assemblyRef: AssemblyName, assemblySecurity:
20	Evidence, callerLocation : String) : Assembly;
21	
22	Description
23	
24	Load
25	

1	
2	[C#] Assembly Load(byte[] rawAssembly, byte[] rawSymbolStore, Evidence
3	securityEvidence);
4	[C++] Assembly* Load(unsigned char rawAssemblygc[], unsigned char
5	rawSymbolStoregc[], Evidence* securityEvidence);
6	[VB] Function Load(ByVal rawAssembly() As Byte, ByVal rawSymbolStore() As
7	Byte, ByVal securityEvidence As Evidence) As Assembly
8	[JScript] function Load(rawAssembly : Byte[], rawSymbolStore : Byte[],
9	securityEvidence : Evidence) : Assembly;
10	
11	Description
12	
13	Load
14	
15	[C#] Assembly Load(string assemblyString, Evidence assemblySecurity, string
16	callerLocation);
17	[C++] Assembly* Load(String* assemblyString, Evidence* assemblySecurity,
18	String* callerLocation);
19	[VB] Function Load(ByVal assemblyString As String, ByVal assemblySecurity
20	As Evidence, ByVal callerLocation As String) As Assembly
21	[JScript] function Load(assemblyString : String, assemblySecurity : Evidence,
22	callerLocation : String) : Assembly;
23	
24	Description
25	

1	SetAppDomainPolicy
2	
3	[C#] void SetAppDomainPolicy(PolicyLevel domainPolicy);
4	[C++] void SetAppDomainPolicy(PolicyLevel* domainPolicy);
5	[VB] Sub SetAppDomainPolicy(ByVal domainPolicy As PolicyLevel)
6	[JScript] function SetAppDomainPolicy(domainPolicy: PolicyLevel);
7	
8	Description
9	
10	SetCachePath
11	
12	[C#] void SetCachePath(string s);
13	[C++] void SetCachePath(String* s);
14	[VB] Sub SetCachePath(ByVal s As String)
15	[JScript] function SetCachePath(s : String);
16	
17	Description
18	
19	SetData
20	
21	[C#] void SetData(string name, object data);
22	[C++] void SetData(String* name, Object* data);
23	[VB] Sub SetData(ByVal name As String, ByVal data As Object)
24	[JScript] function SetData(name : String, data : Object);
25	

Description 2 3 SetPrincipalPolicy 5 [C#] void SetPrincipalPolicy(PrincipalPolicy policy); 6 [C++] void SetPrincipalPolicy(PrincipalPolicy policy); 7 [VB] Sub SetPrincipalPolicy(ByVal policy As PrincipalPolicy) 8 [JScript] function SetPrincipalPolicy(policy: PrincipalPolicy); 9 10 Description 11 12 SetShadowCopyPath 13 14 [C#] void SetShadowCopyPath(string s); 15 [C++] void SetShadowCopyPath(String* s); 16 [VB] Sub SetShadowCopyPath(ByVal s As String) 17 [JScript] function SetShadowCopyPath(s: String); 18 19 Description 20 21 SetThreadPrincipal 22 23 [C#] void SetThreadPrincipal(IPrincipal principal); 24 [C++] void SetThreadPrincipal(IPrincipal* principal);

1	[VB] Sub SetThreadPrincipal(ByVal principal As IPrincipal
2	[JScript] function SetThreadPrincipal(principal: IPrincipal);
3	
4	Description
5	
6	ToString
7	
8	[C#] string ToString();
9	[C++] String* ToString();
10	[VB] Function ToString() As String
11	[JScript] function ToString() : String;
12	
13	Description
14	
15	Activator class (System)
16	ToString
17	
18	
19	Description

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Contains methods to create types of objects locally or remotely, or obtain references to existing remote objects.

The

System. Activator. Create Instance (System. Type, System. Reflection. Binding Flack of the control of the congs, System. Reflection. Binder, System. Object [], System. Globalization. Culture Information and the state of the control of of thefo) method creates an instance of a type defined in an assembly by invoking the

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constructor that best matches the specified arguments. If no arguments are specified, the constructor that takes no parameters, that is, the default constructor, is invoked.

CreateComInstanceFrom

[C#] public static ObjectHandle CreateComInstanceFrom(string assemblyName, string typeName);

[C++] public: static ObjectHandle* CreateComInstanceFrom(String* assemblyName, String* typeName);

[VB] Public Shared Function CreateComInstanceFrom(ByVal assemblyName As String, ByVal typeName As String) As ObjectHandle

[JScript] public static function CreateComInstanceFrom(assemblyName : String, typeName : String) : ObjectHandle;

Description

Creates an instance of the COM object whose name is specified, using the named assembly file and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of a file that contains an assembly where the type named *typeName* is sought. The name of the desired type.

CreateInstance

1	
2	[C#] public static object CreateInstance(Type type);
3	[C++] public: static Object* CreateInstance(Type* type);
4	[VB] Public Shared Function CreateInstance(ByVal type As Type) As Object
5	[JScript] public static function CreateInstance(type : Type) : Object;
6	
7	Description
8	Creates an instance of the specified type using the constructor that best
9	matches the specified parameter.
10	Return Value: A reference to the newly created object.
11	The constructor to be invoked must be accessible. The type of object to
12	create.
13	CreateInstance
14	
15	[C#] public static ObjectHandle CreateInstance(string assemblyName, string
16	typeName);
17	[C++] public: static ObjectHandle* CreateInstance(String* assemblyName,
18	String* typeName);
19	[VB] Public Shared Function CreateInstance(ByVal assemblyName As String,
20	ByVal typeName As String) As ObjectHandle
21	[JScript] public static function CreateInstance(assemblyName : String, typeName :
22	String): ObjectHandle;
23	
24	Description
25	

Creates an instance of the type whose name is specified, using the named assembly and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of the assembly where the type named *typeName* is sought. If *assemblyName* is **null**, the executing assembly is searched. The name of the desired type.

CreateInstance

[C#] public static object CreateInstance(Type type, object[] args);

[C++] public: static Object* CreateInstance(Type* type, Object* args __gc[]);

[VB] Public Shared Function CreateInstance(ByVal type As Type, ByVal args()

As Object) As Object

[JScript] public static function CreateInstance(type : Type, args : Object[]) : Object;

Description

Creates an instance of the specified type using the constructor that best matches the specified parameters.

Return Value: A reference to the newly created object.

The constructor to be invoked must be accessible and provide the most specific match with the specified argument list. The type of object to create. An array of arguments that match in number, order, and type the parameters of the

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constructor to invoke. If *args* is an empty array or **null**, the constructor that takes no parameters (the default constructor) is invoked.

CreateInstance

[C#] public static ObjectHandle CreateInstance(string assemblyName, string typeName, object[] activationAttributes);

[C++] public: static ObjectHandle* CreateInstance(String* assemblyName, String* typeName, Object* activationAttributes gc[]);

[VB] Public Shared Function CreateInstance(ByVal assemblyName As String, ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle

[JScript] public static function CreateInstance(assemblyName : String, typeName : String, activationAttributes : Object[]) : ObjectHandle;

Description

Creates an instance of the type whose name is specified, using the named assembly and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of the assembly where the type named *typeName* is sought. If *assemblyName* is **null**, the executing assembly is searched. The name of the desired type. An array of one or more attributes that can participate in activation.

CreateInstance

[C#] public static object CreateInstance(Type type, object[] args, object[]
activationAttributes);
[C++] public: static Object* CreateInstance(Type* type, Object* argsgc[],
Object* activationAttributesgc[]);
[VB] Public Shared Function CreateInstance(ByVal type As Type, ByVal args()
As Object, ByVal activationAttributes() As Object) As Object
[JScript] public static function CreateInstance(type : Type, args : Object[],
activationAttributes : Object[]) : Object;

Description

Creates an instance of the specified type using the constructor that best matches the specified parameters.

Return Value: A reference to the newly created object.

The constructor to be invoked must be accessible and provide the most specific match with the specified argument list. The type of object to create. An array of arguments that match in number, order, and type the parameters of the constructor to invoke. If *args* is an empty array or **null**, the constructor that takes no parameters (the default constructor) is invoked. An array of one or more attributes that can participate in activation.

CreateInstance

[C#] public static object CreateInstance(Type type, BindingFlags bindingAttr,Binder binder, object[] args, CultureInfo culture);[C++] public: static Object* CreateInstance(Type* type, BindingFlags

bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture);
[VB] Public Shared Function CreateInstance(ByVal type As Type, ByVal
bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object,
ByVal culture As CultureInfo) As Object
[JScript] public static function CreateInstance(type: Type, bindingAttr:
BindingFlags, binder: Binder, args: Object[], culture: CultureInfo): Object;
Creates an instance of the specified type using the constructor that best matches the specified parameters.

Description

Creates an instance of the specified type using the constructor that best matches the specified parameters.

Return Value: A reference to the newly created object.

The constructor to be invoked must be accessible and provide the most specific match with the specified argument list under the constraints of the specified binder and binding attributes. The type of object to create. A combination of zero or more bit flags that affect the search for the *type* constructor. If *bindingAttr* is zero, a case-sensitive search for public properties is conducted. An object that uses *bindingAttr* and *args* to seek and identify the *type* constructor. If *binder* is **null**, the default binder is used. An array of arguments that match in number, order, and type the parameters of the constructor to invoke. If *args* is an empty array or **null**, the constructor that takes no parameters (the default constructor) is invoked. Culture-specific information that governs the coercion of *args* to the formal types declared for the *type* constructor. If *culture* is **null**, the **System.Globalization.CultureInfo** for the current thread is used.

CreateInstance

[C#] public static object CreateInstance(Type type, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes); [C++] public: static Object* CreateInstance(Type* type, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[]); [VB] Public Shared Function CreateInstance(ByVal type As Type, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object [JScript] public static function CreateInstance(type: Type, bindingAttr: BindingFlags, binder: Binder, args: Object[], culture: CultureInfo, activationAttributes: Object[]): Object;

Description

Creates an instance of the specified type using the constructor that best matches the specified parameters.

Return Value: A reference to the newly created object.

The constructor to be invoked must be accessible and provide the most specific match with the specified argument list under the constraints of the specified binder and binding attributes. The type of object to create. A combination of zero or more bit flags that affect the search for the *type* constructor. If *bindingAttr* is zero, a case-sensitive search for public properties is conducted. An object that uses *bindingAttr* and *args* to seek and identify the *type* constructor. If *binder* is **null**, the default binder is used. An array of arguments that

match in number, order, and type the parameters of the constructor to invoke. If args is an empty array or **null**, the constructor that takes no parameters (the default constructor) is invoked. Culture-specific information that governs the coercion of args to the formal types declared for the type constructor. If culture is **null**, the **System.Globalization.CultureInfo** for the current thread is used. An array of one or more attributes that can participate in activation.

CreateInstance

[C#] public static ObjectHandle CreateInstance(string assemblyName, string
typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[]
args, CultureInfo culture, object[] activationAttributes, Evidence securityInfo);
[C++] public: static ObjectHandle* CreateInstance(String* assemblyName,
String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder,
Object* argsgc[], CultureInfo* culture, Object* activationAttributesgc[],
Evidence* securityInfo);
[VB] Public Shared Function CreateInstance(ByVal assemblyName As String,
ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As
BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As
CultureInfo, ByVal activationAttributes() As Object, ByVal securityInfo As
Evidence) As ObjectHandle
[JScript] public static function CreateInstance(assemblyName : String, typeName
String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args:
Object[], culture: CultureInfo, activationAttributes: Object[], securityInfo:
Evidence): ObjectHandle;

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Description

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Creates an instance of the type whose name is specified, using the named assembly and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of the assembly where the type named typeName is sought. If assembly Name is **null**, the executing assembly is searched. The name of the desired type. A Boolean that specifies whether the search for typeName is casesensitive. If ignoreCase is true, the search is not case-sensitive. A combination of zero or more bit flags that affect the search for the typeName constructor. If bindingAttr is zero, a case-sensitive search for public properties is conducted. An object that uses bindingAttr and args to seek and identify the typeName constructor. If binder is null, the default binder is used. An array of arguments that match in number, order, and type the parameters of the constructor to invoke. If args is an empty array or **null**, the constructor that takes no parameters (the default constructor) is invoked. Culture-specific information that governs the coercion of args to the formal types declared for the typeName constructor. If culture is null, the System.Globalization.CultureInfo for the current thread is used. An array of one or more attributes that can participate in activation. Information used to make security policy decisions and grant code permissions.

CreateInstanceFrom

[C#] public static ObjectHandle CreateInstanceFrom(string assemblyFile, string

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1	typeName);
2	[C++] public: static ObjectHandle* CreateInstanceFrom(String* assemblyFile,
3	String* typeName);
4	[VB] Public Shared Function CreateInstanceFrom(ByVal assemblyFile As String,
5	ByVal typeName As String) As ObjectHandle
6	[JScript] public static function CreateInstanceFrom(assemblyFile : String,
7	typeName : String) : ObjectHandle; Creates an instance of the type whose name is
8	specified, using the named assembly file and the constructor that best matches the
9	specified parameters.
10	
11	Description
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Creates an instance of the type whose name is specified, using the named assembly file and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of a file that contains an assembly where the type named *typeName* is sought. The name of the desired type.

CreateInstanceFrom

[C#] public static ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, object[] activationAttributes);
[C++] public: static ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, Object* activationAttributes __gc[]);
[VB] Public Shared Function CreateInstanceFrom(ByVal assemblyFile As String,

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ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle

[JScript] public static function CreateInstanceFrom(assemblyFile : String, typeName : String, activationAttributes : Object[]) : ObjectHandle;

Description

Creates an instance of the type whose name is specified, using the named assembly file and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of a file that contains an assembly where the type named *typeName* is sought. The name of the desired type. An array of one or more attributes that can participate in activation.

CreateInstanceFrom

[C#] public static ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityInfo); [C++] public: static ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityInfo); [VB] Public Shared Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As

BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal securityInfo As Evidence) As ObjectHandle

[JScript] public static function CreateInstanceFrom(assemblyFile: String, typeName: String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args: Object[], culture: CultureInfo, activationAttributes: Object[], securityInfo: Evidence): ObjectHandle;

Description

Creates an instance of the type whose name is specified, using the named assembly file and the constructor that best matches the specified parameters.

Return Value: A handle, which must be unwrapped to access the newly created instance.

This method allows types to be created remotely without having to load the type locally. The name of a file that contains an assembly where the type named typeName is sought. The name of the desired type. A Boolean that specifies whether the search for typeName is case-sensitive. If ignoreCase is true, the search is not case-sensitive. A combination of zero or more bit flags that affect the search for the typeName constructor. If bindingAttr is zero, a case-sensitive search for public properties is conducted. An object that uses bindingAttr and args to seek and identify the typeName constructor. If binder is null, the default binder is used. An array of arguments that match in number, order, and type the parameters of the constructor to invoke. If args is an empty array or null, the constructor that takes no parameters (the default constructor) is invoked. Culture-specific information that governs the coercion of args to the formal types declared for the typeName

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constructor. If *culture* is **null**, the **System.Globalization.CultureInfo** for the current thread is used. An array of one or more attributes that can participate in activation. Information used to make security policy decisions and grant code permissions.

GetObject

[C#] public static object GetObject(Type type, string url);

[C++] public: static Object* GetObject(Type* type, String* url);

[VB] Public Shared Function GetObject(ByVal type As Type, ByVal url As String) As Object

[JScript] public static function GetObject(type: Type, url: String): Object; Creates a proxy for a currently running remote object, server-activated well-known object, or web service.

Description

Creates a proxy for the well-known object indicated by the specified type and URL.

Return Value: A proxy that points to an endpoint served by the requested well-known object.

Call the proxy to send messages to the remote object. No messages are sent over the network until a method is called on the proxy. The type of the well-known object to which you want to connect. The URL of the well-known object.

GetObject

[C#] public static object GetObject(Type type, string url, object state);

1	[C++] public: static Object* GetObject(Type* type, String* url, Object* state);
2	[VB] Public Shared Function GetObject(ByVal type As Type, ByVal url As
3	String, ByVal state As Object) As Object
4	[JScript] public static function GetObject(type : Type, url : String, state : Object) :
5	Object;
6	
7	Description
8	Creates a proxy for the well-known object indicated by the specified type,
9	URL, and channel data.
0	Return Value: A proxy that points to an endpoint served by the requested well-
1	known object.
2	Call the proxy to send messages to the remote object. No messages are sent
13	over the network until a method is called on the proxy. The type of the well-
4	known object to which you want to connect. The URL of the well-known object.
15	Channel-specific data or null.
16	AppDomain class (System)
17	ToString
8	

Description

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Represents an application domain, which is an isolated environment where applications execute. This class cannot be inherited.

Application domains isolate executing applications from one another. One or more applications can run in a single application domain.

BaseDirectory

1	ToString
2	
3	[C#] public string BaseDirectory {get;}
4	[C++] public:property String* get_BaseDirectory();
5	[VB] Public ReadOnly Property BaseDirectory As String
6	[JScript] public function get BaseDirectory(): String;
7	
8	Description
9	Gets the base directory that the assembly resolver used to probe for
10	assemblies.
11	This property corresponds to the assembly resolver's APPBASE.
12	CurrentDomain
13	ToString
14	
15	[C#] public static AppDomain CurrentDomain {get;}
16	[C++] public:property static AppDomain* get_CurrentDomain();
17	[VB] Public Shared ReadOnly Property CurrentDomain As AppDomain
18	[JScript] public static function get CurrentDomain(): AppDomain;
19	
20	Description
21	Gets the current application domain for the current
22	System.Threading.Thread.
23	DynamicDirectory
24	ToString
25	

[C#] public string DynamicDirectory {get;} [C++] public: __property String* get_DynamicDirectory(); 3 [VB] Public ReadOnly Property DynamicDirectory As String [JScript] public function get DynamicDirectory(): String; 6 Description 7 Gets the directory that the assembly resolver used to probe for dynamically-8 created assemblies. 9 Only available once an attempt has been made to load an assembly into this 10 domain. 11 Evidence 12 **ToString** 13 14 [C#] public Evidence Evidence {get;} 15 [C++] public: __property Evidence* get_Evidence(); 16 [VB] Public ReadOnly Property Evidence As Evidence 17 [JScript] public function get Evidence(): Evidence; 18 19 Description 20 Gets the System.Security.Policy.Evidence associated with this application 21 domain that is used as input to security policy. 22 FriendlyName 23 **ToString** 24 25

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[C#] public string FriendlyName {get;}
    [C++] public: property String* get FriendlyName();
    [VB] Public ReadOnly Property FriendlyName As String
    [JScript] public function get FriendlyName(): String;
6
    Description
7
           Gets the friendly name of this application domain.
8
           The friendly name of the default application domain is the name of the
9
    assembly file loaded in the application domain. The friendly name is formed by
10
    stripping the directory specification from the assembly's codebase. For example, if
11
    an assembly with the file name "c:\MyAppDirectory\MyAssembly.exe" is loaded
12
    in the default application domain, the friendly name of that application domain is
13
    "MyAssembly.exe".
14
           RelativeSearchPath
15
           ToString
16
17
    [C#] public string RelativeSearchPath {get;}
18
    [C++] public: property String* get RelativeSearchPath();
19
    [VB] Public ReadOnly Property RelativeSearchPath As String
20
    [JScript] public function get RelativeSearchPath(): String;
21
22
    Description
23
           Gets the path relative to the base directory where the assembly resolver
24
```

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should probe for private assemblies.

Private assemblies are deployed in the same directory structure as the
application.
SetupInformation
ToString
[C#] public AppDomainSetup SetupInformation {get;}
[C++] public:property AppDomainSetup* get_SetupInformation();
[VB] Public ReadOnly Property SetupInformation As AppDomainSetup
[JScript] public function get SetupInformation(): AppDomainSetup;
Description
Gets the application domain configuration information for this instance.
ShadowCopyFiles
ToString
[C#] public bool ShadowCopyFiles {get;}
[C++] public:property bool get_ShadowCopyFiles();
[VB] Public ReadOnly Property ShadowCopyFiles As Boolean
[JScript] public function get ShadowCopyFiles() : Boolean;
Description
Gets an indication whether all assemblies that are loaded in the application
domain are shadow copied.

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ToString

1 This method sets the System.AppDomainSetup.ShadowCopyFiles property of the internal System. AppDomainSetup object associated with this 2 instance. 3 **ToString** [C#] public event AssemblyLoadEventHandler AssemblyLoad; [C++] public: sealed event AssemblyLoadEventHandler* AssemblyLoad; 7 [VB] NotOverridable Public Event AssemblyLoad As 8 Assembly Load Event Handler9 10 Description 11 Occurs when an assembly is loaded. 12 The System.AssemblyLoadEventHandler for this event can attempt to 13 locate the assembly and load it. 14 **ToString** 15 16 [C#] public event ResolveEventHandler AssemblyResolve; 17 [C++] public: sealed event ResolveEventHandler* AssemblyResolve; 18 [VB] NotOverridable Public Event AssemblyResolve As ResolveEventHandler 19 20 Description Occurs when the resolution of an assembly fails. 22 The System.ResolveEventHandler for this event can attempt to locate the 23 assembly and load it. 24

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2	[C#] public event EventHandler DomainUnload;
3	[C++] public:sealedevent EventHandler* DomainUnload;
4	[VB] NotOverridable Public Event DomainUnload As EventHandler
5	
6	Description
7	Occurs when an System.AppDomain is about to be unloaded.
8	The System.EventHandler for this event can attempt to locate the
9	assembly and load it.
10	ToString
11	
12	[C#] public event EventHandler ProcessExit;
13	[C++] public:sealedevent EventHandler* ProcessExit;
14	[VB] NotOverridable Public Event ProcessExit As EventHandler
15	
16	Description
17	Occurs when a process is about to exit.
18	The System.EventHandler for this event can perform termination
19	activities, such as closing files, releasing storage and so on, before the process
20	ends.
21	ToString
22	
23	[C#] public event ResolveEventHandler ResourceResolve;
24	[C++] public:sealedevent ResolveEventHandler* ResourceResolve;
25	[VB] NotOverridable Public Event ResourceResolve As ResolveEventHandler

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Description

Occurs when the resolution of a resource fails.

The **System.ResolveEventHandler** for this event can attempt to locate the resource and load it.

ToString

[C#] public event ResolveEventHandler TypeResolve;

[C++] public: __sealed __event ResolveEventHandler* TypeResolve;

[VB] NotOverridable Public Event TypeResolve As ResolveEventHandler

Description

Occurs when the resolution of a type fails.

The **System.ResolveEventHandler** for this event can attempt to locate the type and load it.

ToString

[C#] public event UnhandledExceptionEventHandler UnhandledException;

[C++] public: __sealed __event UnhandledExceptionEventHandler*

UnhandledException;

[VB] NotOverridable Public Event UnhandledException As

UnhandledExceptionEventHandler

Description

Occurs when an exception is not caught by an event handler.

1	For more information about handling events, see .
2	AppendPrivatePath
3	
4	[C#] public void AppendPrivatePath(string path);
5	[C++] public:sealed void AppendPrivatePath(String* path);
6	[VB] NotOverridable Public Sub AppendPrivatePath(ByVal path As String)
7	[JScript] public function AppendPrivatePath(path : String);
8	
9	Description
10	Appends the specified name of the directory to the private path.
11	The private path, or relative search path, is the path relative to the base
12	directory where the assembly resolver probes for private assemblies. The name of
13	the directory to be appended to the private path.
14	ClearPrivatePath
15	
16	[C#] public void ClearPrivatePath();
17	[C++] public:sealed void ClearPrivatePath();
18	[VB] NotOverridable Public Sub ClearPrivatePath()
19	[JScript] public function ClearPrivatePath();
20	
21	Description
22	Resets the System.AppDomainSetup.PrivateBinPath for this instance to
23	null.
24	ClearShadowCopyPath
25	

1	
2	[C#] public void ClearShadowCopyPath();
3	[C++] public:sealed void ClearShadowCopyPath();
4	[VB] NotOverridable Public Sub ClearShadowCopyPath()
5	[JScript] public function ClearShadowCopyPath();
6	
7	Description
8	Resets the System.AppDomainSetup.ShadowCopyDirectories property
9	for this instance to null .
10	CreateComInstanceFrom
11	
12	[C#] public ObjectHandle CreateComInstanceFrom(string assemblyName, string
13	typeName);
14	[C++] public: ObjectHandle* CreateComInstanceFrom(String* assemblyName,
15	String* typeName);
16	[VB] Public Function CreateComInstanceFrom(ByVal assemblyName As String
17	ByVal typeName As String) As ObjectHandle
18	[JScript] public function CreateComInstanceFrom(assemblyName : String,
19	typeName : String) : ObjectHandle;
20	
21	Description
22	Creates an instance of a COM object. Parameters specify the name of the
23	assembly that can create the object and the name of the type of the object.
24	Return Value: An object that is a wrapper for the new instance.
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Use this method to create types remotely without having to load the type locally. The return value must to be unwrapped in order to access the real object. The name of the assembly in which this object type resides. The type name of the desired object.

CreateDomain

[C#] public static AppDomain CreateDomain(string friendlyName);

[C++] public: static AppDomain* CreateDomain(String* friendlyName);

[VB] Public Shared Function CreateDomain(ByVal friendlyName As String) As

AppDomain

[JScript] public static function CreateDomain(friendlyName : String) :

AppDomain;

Description

Creates a new application domain with the specified name.

Return Value: The newly created application domain.

friendlyName can be displayed in user interfaces to identify the domain. The friendly name of the domain.

CreateDomain

[C#] public static AppDomain CreateDomain(string friendlyName, Evidence securityInfo);

[C++] public: static AppDomain* CreateDomain(String* friendlyName,

Evidence* securityInfo);

[VB] Public Shared Function CreateDomain(ByVal friendlyName As String,

1	ByVal securityInfo As Evidence) As AppDomain
2	[JScript] public static function CreateDomain(friendlyName : String, securityInfo :
3	Evidence): AppDomain; Creates a new application domain.
4	
5	Description
6	Creates a new application domain with the given name using the supplied
7	evidence.
8	Return Value: The newly created application domain. The friendly name of the
9	domain. This friendly name can be displayed in user interfaces to identify the
10	domain. See the description of System.AppDomain.FriendlyName. Evidence
11	mapped through security policy to establish a top-of-stack permission set.
12	CreateDomain
13	
14	[C#] public static AppDomain CreateDomain(string friendlyName, Evidence
15	securityInfo, AppDomainSetup info);
16	[C++] public: static AppDomain* CreateDomain(String* friendlyName,
17	Evidence* securityInfo, AppDomainSetup* info);
18	[VB] Public Shared Function CreateDomain(ByVal friendlyName As String,
19	ByVal securityInfo As Evidence, ByVal info As AppDomainSetup) As
20	AppDomain
21	[JScript] public static function CreateDomain(friendlyName : String, securityInfo :
22	Evidence, info : AppDomainSetup) : AppDomain;
23	
24	Description
25	

Creates a new application domain using the specified name, evidence, application domain setup information.

Return Value: The newly created application domain. The friendly name of the domain. This friendly name can be displayed in user interfaces to identify the domain. See the description of **System.AppDomain.FriendlyName**. Evidence mapped through security policy to establish a top-of-stack permission set. An object that contains application domain initialization information.

CreateDomain

[C#] public static AppDomain CreateDomain(string friendlyName, Evidence securityInfo, string appBasePath, string appRelativeSearchPath, bool shadowCopyFiles);

[C++] public: static AppDomain* CreateDomain(String* friendlyName, Evidence* securityInfo, String* appBasePath, String* appRelativeSearchPath, bool shadowCopyFiles);

[VB] Public Shared Function CreateDomain(ByVal friendlyName As String, ByVal securityInfo As Evidence, ByVal appBasePath As String, ByVal appRelativeSearchPath As String, ByVal shadowCopyFiles As Boolean) As AppDomain

[JScript] public static function CreateDomain(friendlyName : String, securityInfo :

Evidence, app Base Path: String, app Relative Search Path: String,

shadowCopyFiles: Boolean): AppDomain;

Description

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Creates a new application domain with the given name using, evidence, application base path, relative search path, and a parameter that specifies whether a shadow copy of an assembly is to be loaded in to the application domain. *Return Value:* The newly created application domain. The friendly name of the domain. This friendly name can be displayed in user interfaces to identify the domain. See the description of **System.AppDomain.FriendlyName**. Evidence mapped through security policy to establish a top-of-stack permission set. The base directory that the assembly resolver uses to probe for assemblies. See the description of **System.AppDomain.BaseDirectory**. The path relative to the base directory where the assembly resolver should probe for private assemblies. See the description of **System.AppDomain.RelativeSearchPath**. If **true**, a shadow copy of an assembly is loaded into this application domain.

CreateInstance

[C#] public ObjectHandle CreateInstance(string assemblyName, string typeName);

[C++] public: __sealed ObjectHandle* CreateInstance(String* assemblyName, String* typeName);

[VB] NotOverridable Public Function CreateInstance(ByVal assemblyName As String, ByVal typeName As String) As ObjectHandle

String): ObjectHandle; Creates a new instance of a specified type defined in the specified assembly file.

[JScript] public function CreateInstance(assemblyName : String, typeName :

Description

Creates a new instance of the specified type defined in the specified assembly.

Return Value: An object that is a wrapper for the new instance, or **null** if typeName is not found. The return value needs to be unwrapped to access the real object.

This is a convenience method that calls the default constructor for typeName. The display name of the assembly. See the description of System.Reflection.AssemblyName for the format of the display name. The full name of the type.

CreateInstance

[C#] public ObjectHandle CreateInstance(string assemblyName, string typeName, object[] activationAttributes);

[C++] public: __sealed ObjectHandle* CreateInstance(String* assemblyName, String* typeName, Object* activationAttributes __gc[]);

[VB] NotOverridable Public Function CreateInstance(ByVal assemblyName As String, ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle

[JScript] public function CreateInstance(assemblyName : String, typeName :

String, activationAttributes : Object[]) : ObjectHandle;

Description

Creates an instance using the name of the type and the assembly where it exists.

Return Value: A handle to the requested object.

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This method allows types to be created remotely without having to load the type locally. This will return an **System.Runtime.Remoting.ObjectHandle** that needs to be unwrapped in order to access the real object. The name of the assembly in which this object type resides. The type name of the desired object. One or more attributes that can participate in activation.

CreateInstance

[C#] public ObjectHandle CreateInstance(string assemblyName, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes); [C++] public: __sealed ObjectHandle* CreateInstance(String* assemblyName, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes); [VB] NotOverridable Public Function CreateInstance(ByVal assemblyName As String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal securityAttributes As Evidence) As ObjectHandle [JScript] public function CreateInstance(assemblyName : String, typeName : String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args: Object[], culture: CultureInfo, activationAttributes: Object[], securityAttributes: Evidence): ObjectHandle;

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Creates an instance using the name of the type and the assembly where it exists.

Return Value: A handle to the requested object.

This method allows types to be created remotely without having to load the type locally. This will return an System.Runtime.Remoting.ObjectHandle that needs to be unwrapped in order to access the real object. The name of the assembly in which this object type resides. The type name of the desired object. A Boolean value specifying whether to perform a case-sensitive search or not. This bitmask affects the way in which the search is conducted. The value is a combination of zero or more bit flags from System.Reflection.BindingFlags, such as NonPublicand OABinding. An object that enables the binding, coercion of argument types, invocation of members and retrieval of **System.Reflection.MemberInfo** objects using reflection. If *binder* is null, the default binder is used. The arguments to be passed to the constructor. This array of arguments must match in number, order, and type the parameters of the constructor to be invoked. If the default constructor is desired, args must be an empty array or null. An instance of System. Globalization. CultureInfo used to govern the coercion of types. If this is null, the CultureInfofor the current thread is used. (Note that this is necessary to, for example, convert a **String**that represents 1000 to a **Double** value, since 1000 is represented differently by different cultures.) One or more attributes that can participate in activation.

CreateInstanceAndUnwrap

[C#] public object CreateInstanceAndUnwrap(string assemblyName, string typeName);

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[C++] public: Object* CreateInstanceAndUnwrap(String* assemblyName, String* typeName); 2 [VB] Public Function CreateInstanceAndUnwrap(ByVal assemblyName As 3 String, ByVal typeName As String) As Object 4 [JScript] public function CreateInstanceAndUnwrap(assemblyName : String, 5 typeName: String): Object; Creates a new instance of a specified type. 6 7 Description 8 Creates a new instance of the specified type. Parameters specify the 9 assembly where the type is defined, and the name of the type. 10 Return Value: An instance of typeName, or null if typeName is not found. 11 This a convenience method that combines 12 System.AppDomain.CreateInstance(System.String,System.String) and 13 System.Runtime.Remoting.ObjectHandle.Unwrap . This method calls the 14 default constructor for typeName . The name of the assembly. The fully qualified 15 name of the type. 16 CreateInstanceAndUnwrap 17 18

[C#] public object CreateInstanceAndUnwrap(string assemblyName, string typeName, object[] activationAttributes);
[C++] public: Object* CreateInstanceAndUnwrap(String* assemblyName, String* typeName, Object* activationAttributes __gc[]);
[VB] Public Function CreateInstanceAndUnwrap(ByVal assemblyName As String, ByVal typeName As String, ByVal activationAttributes() As Object) As Object

[JScript] public function CreateInstanceAndUnwrap(assemblyName : String, typeName : String, activationAttributes : Object[]) : Object;

Description

Creates a new instance of the specified type. Parameters specify the assembly where the type is defined, the name of the type, and an array of activation attributes.

Return Value: An instance of typeName, or null if typeName is not found.

This a convenience method that combines

System.AppDomain.CreateInstance(System.String,System.String) and System.Runtime.Remoting.ObjectHandle.Unwrap. This method calls the default constructor for *typeName*. The name of the assembly. The fully qualified name of the type. An array containing one or more attributes that can participate in activation.

CreateInstanceAndUnwrap

[C#] public object CreateInstanceAndUnwrap(string assemblyName, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes);

[C++] public: Object* CreateInstanceAndUnwrap(String* assemblyName, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes);

[VB] Public Function CreateInstanceAndUnwrap(ByVal assemblyName As

String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal securityAttributes As Evidence) As Object
[JScript] public function CreateInstanceAndUnwrap(assemblyName: String, typeName: String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args: Object[], culture: CultureInfo, activationAttributes: Object[], securityAttributes: Evidence): Object;

Description

Creates a new instance of the specified type. Parameters specify the name of the type and how it is found and created.

Return Value: An System.Object, which is an instance of typeName, or null if typeName is not found.

This a convenience method that combines

System.AppDomain.CreateInstance(System.String,System.String) and System.Runtime.Remoting.ObjectHandle.Unwrap. The name of the assembly. The fully qualified name of the type. A Boolean value specifying whether to perform a case-sensitive search or not. This bitmask affects the way in which the search is conducted. The value is a combination of zero or more bit flags from System.Reflection.BindingFlags, such as NonPublicand OABinding. An object that enables the binding, coercion of argument types, invocation of members and retrieval of System.Reflection.MemberInfo objects using reflection. If binder is null, the default binder is used. The arguments to be passed to the constructor. This array of arguments must match in number, order, and type the parameters of

the constructor to be invoked. If the default constructor is desired, *args* must be an empty array or null. A culture-specific object used to govern the coercion of types. If *culture* is **null**, the **CultureInfo**for the current thread is used. (Note that this is necessary to, for example, convert a **String**that represents 1000 to a **Double** value, since 1000 is represented differently by different cultures.) An **System.Object** array containing one or more attributes that can participate in activation. An **System.Security.Policy.Evidence** object used to verify that *typeName* is allowed to be created.

CreateInstanceFrom

[C#] public ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName);

[C++] public: __sealed ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName);

[VB] NotOverridable Public Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String) As ObjectHandle

String): ObjectHandle; Creates a new instance of a specified type defined in the specified assembly file.

[JScript] public function CreateInstanceFrom(assemblyFile: String, typeName:

Description

Creates a new instance of the specified type defined in the specified assembly file.

Return Value: An object that is a wrapper for the new instance, or null if

typeName is not found. The return value needs to be unwrapped to access the real object.

This is a convenience method that calls the default constructor for *typeName*. The assembly file name. The full name of the type.

CreateInstanceFrom

[C#] public ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, object[] activationAttributes);

[C++] public: __sealed ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, Object* activationAttributes __gc[]);

[VB] NotOverridable Public Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String, ByVal activationAttributes() As Object) As ObjectHandle

[JScript] public function CreateInstanceFrom(assemblyFile : String, typeName : String, activationAttributes : Object[]) : ObjectHandle;

Description

Creates a new instance of the specified type defined in the specified assembly file.

Return Value: A handle to the requested object.

This method allows types to be created remotely without having to load the type locally. This will return an **System.Runtime.Remoting.ObjectHandle** that needs to be unwrapped in order to access the real object. The file containing the desired object's assembly. The type name of the desired object. One or more attributes that can participate in activation.

CreateInstanceFrom

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[C#] public ObjectHandle CreateInstanceFrom(string assemblyFile, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes);

[C++] public: __sealed ObjectHandle* CreateInstanceFrom(String* assemblyFile, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes);

[VB] NotOverridable Public Function CreateInstanceFrom(ByVal assemblyFile As String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object, ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal securityAttributes As Evidence) As ObjectHandle

[JScript] public function CreateInstanceFrom(assemblyFile: String, typeName:

String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder: Binder, args:

Object[], culture: CultureInfo, activationAttributes: Object[], securityAttributes:

Evidence): ObjectHandle;

Description

Creates a new instance of the specified type defined in the specified assembly file.

Return Value: A handle to the requested object.

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type locally. This will return an **System.Runtime.Remoting.ObjectHandle** that needs to be unwrapped in order to access the real object. The file for the assembly in which this object type resides. The type name of the desired object. A Boolean value specifying whether to perform a case-sensitive search or not. This bitmask affects the way in which the search is conducted. The value is a combination of zero or more bit flags from System.Reflection.BindingFlags, such as NonPublicand OABinding. An object that enables the binding, coercion of argument types, invocation of members and retrieval of System.Reflection.MemberInfo objects through reflection. If binder is null, the default binder is used. The arguments to be passed to the constructor. This array of arguments must match in number, order, and type the parameters of the constructor to be invoked. If the default constructor is desired, args must be an empty array or null. An instance of System. Globalization. CultureInfo used to govern the coercion of types. If this is null, the CultureInfofor the current thread is used. (Note that this is necessary to, for example, convert a **String**that represents 1000 to a **Double** value, since 1000 is represented differently by different cultures.) One or more attributes that can participate in activation.

This method allows types to be created remotely without having to load the

CreateInstanceFromAndUnwrap

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[C#] public object CreateInstanceFromAndUnwrap(string assemblyName, string typeName);

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[C++] public: Object* CreateInstanceFromAndUnwrap(String* assemblyName, String* typeName);

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 $[VB]\ Public\ Function\ CreateInstanceFromAndUnwrap (ByVal\ assemblyName\ As$

String, ByVal typeName As String) As Object

[JScript] public function CreateInstanceFromAndUnwrap(assemblyName: String,
typeName: String): Object; Creates a new instance of a specified type defined in
the specified assembly file.

Description

Creates a new instance of the specified type defined in the specified assembly file.

Return Value: Returns an System.Runtime.Remoting.ObjectHandle object that is a wrapper for the new instance. Returns null if the type is not found.

This a convenience method that combines

System.AppDomain.CreateInstance(System.String,System.String) and System.Runtime.Remoting.ObjectHandle.Unwrap. This method calls the default constructor for *typeName*. The assembly file name. The full name of the type.

Create Instance From And Unwrap

[C#] public object CreateInstanceFromAndUnwrap(string assemblyName, string typeName, object[] activationAttributes);

[C++] public: Object* CreateInstanceFromAndUnwrap(String* assemblyName, String* typeName, Object* activationAttributes __gc[]);

[VB] Public Function CreateInstanceFromAndUnwrap(ByVal assemblyName As String, ByVal typeName As String, ByVal activationAttributes() As Object Object

[JScript] public function CreateInstanceFromAndUnwrap(assemblyName : String,

typeName: String, activationAttributes: Object[]): Object;

Description

Creates an instance using the name of the type and the assembly where it exists. This allows types to be created remotely without having to load the type locally. This will return an ObjectHandle that needs to be unwrapped in order to access the real object.

Return Value: A handle to the desired object.

This a convenience method that combines

System.AppDomain.CreateInstance(System.String,System.String) and System.Runtime.Remoting.ObjectHandle.Unwrap. This method calls the default constructor for *typeName*. The file containing the desired object's assembly. The type name of the desired object. One or more attributes that can participate in activation.

CreateInstanceFromAndUnwrap

[C#] public object CreateInstanceFromAndUnwrap(string assemblyName, string typeName, bool ignoreCase, BindingFlags bindingAttr, Binder binder, object[] args, CultureInfo culture, object[] activationAttributes, Evidence securityAttributes);

[C++] public: Object* CreateInstanceFromAndUnwrap(String* assemblyName, String* typeName, bool ignoreCase, BindingFlags bindingAttr, Binder* binder, Object* args __gc[], CultureInfo* culture, Object* activationAttributes __gc[], Evidence* securityAttributes);

[VB] Public Function CreateInstanceFromAndUnwrap(ByVal assemblyName As

String, ByVal typeName As String, ByVal ignoreCase As Boolean, ByVal
bindingAttr As BindingFlags, ByVal binder As Binder, ByVal args() As Object,
ByVal culture As CultureInfo, ByVal activationAttributes() As Object, ByVal
securityAttributes As Evidence) As Object
[JScript] public function CreateInstanceFromAndUnwrap(assemblyName : String,
typeName: String, ignoreCase: Boolean, bindingAttr: BindingFlags, binder:
Binder, args : Object[], culture : CultureInfo, activationAttributes : Object[],
securityAttributes: Evidence): Object;

Description

Creates an instance using the name of the type and the assembly where it exists. This allows types to be created remotely without having to load the type locally. This will return an ObjectHandle that needs to be unwrapped in order to access the real object.

Return Value: A handle to the requested object.

This a convenience method that combines

System.AppDomain.CreateInstance(System.String,System.String) and System.Runtime.Remoting.ObjectHandle.Unwrap. The file for the assembly in which this object type resides. The type name of the desired object. A Boolean value specifying whether to perform a case-sensitive search or not. This bitmask affects the way in which the search is conducted. The value is a combination of zero or more bit flags from System.Reflection.BindingFlags, such as NonPublicand OABinding. An object that enables the binding, coercion of argument types, invocation of members and retrieval of System.Reflection.MemberInfo objects through reflection. If binder is null, the

default binder is used. The arguments to be passed to the constructor. This array of arguments must match in number, order, and type the parameters of the constructor to be invoked. If the default constructor is desired, *args* must be an empty array or null. An instance of **System.Globalization.CultureInfo** used to govern the coercion of types. If *culture* is **null**, the **CultureInfo** for the current thread is used. (Note that this is necessary to, for example, convert a **String** that represents 1000 to a **Double** value, since 1000 is represented differently by different cultures.) One or more attributes that can participate in activation.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access);

[C++] public: _sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess) As AssemblyBuilder [JScript] public function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess) : AssemblyBuilder; Defines a dynamic assembly in the current application domain.

Description

Defines a dynamic assembly with the given name and the given access.

Return Value: Represents the dynamic assembly created.

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You can specify partial signing of the assembly by specifying AssemblyName.Originator. You can specify full signing of the assembly by specifying AssemblyName.Originator and AssemblyName.KeyPair. The "strong name", or unique identity of the dynamic assembly. The access mode for the dynamic assembly.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, Evidence evidence);

[C++] public: __sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, Evidence* evidence);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal evidence As Evidence) As AssemblyBuilder

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, evidence : Evidence) : AssemblyBuilder;

Description

Defines a dynamic assembly with the given name, the given access, and the supplied evidence.

Return Value: Represents the dynamic assembly created.

Only fully trusted callers can supply evidence when defining a dynamic assembly. The runtime will map the supplied evidence through policy to determine the granted permissions. Semi-trusted callers must supply a **null** evidence. If

evidence is **null**, the runtime copies the permission sets, that is, the current grant and deny sets, from the caller's assembly to the dynamic assembly being defined and marks policy as resolved. If the dynamic assembly is saved to disk, subsequent loads will get grants based on policies associated with the location where the assembly was saved. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The evidence supplied for the dynamic assembly.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir);

[C++] public: sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, String* dir);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String)
As AssemblyBuilder

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, dir : String) : AssemblyBuilder;

Description

Defines a dynamic assembly with the given name, the given access, and the name of the directory for saving the assembly.

Return Value: Represents the dynamic assembly created.

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You can specify partial signing of the assembly by specifying AssemblyName.Originator. You can specify full signing of the assembly by specifying AssemblyName.Originator and AssemblyName.KeyPair. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The name of the directory in which the assembly will be saved. If dir is null, the directory defaults to the current directory.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir, Evidence evidence);

[C++] public: __sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, String* dir, Evidence* evidence);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As Evidence) As AssemblyBuilder

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, dir : String, evidence : Evidence) : AssemblyBuilder;

Description

Defines a dynamic assembly with the given name, given access, the name of the directory for saving the assembly, and the supplied evidence.

Return Value: Represents the dynamic assembly created.

Only fully trusted callers can supply their evidence when defining a dynamic assembly. The runtime will map the evidence through policy to

determine the granted permissions. Semi-trusted callers must supply a **null** evidence. If *evidence* is **null**, the runtime copies the permission sets, that is, the current grant and deny sets, from the caller's assembly to the dynamic assembly being defined and marks policy as resolved. If the dynamic assembly is saved to disk, subsequent loads will get grants based on policies associated with the location where the assembly was saved. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The name of the directory in which the assembly will be saved. If *dir* is **null**, the directory defaults to the current directory. The evidence supplied for the dynamic assembly.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name,
AssemblyBuilderAccess access, PermissionSet requiredPermissions,
PermissionSet optionalPermissions, PermissionSet refusedPermissions);
[C++] public:sealed AssemblyBuilder*
DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess
access, PermissionSet* requiredPermissions, PermissionSet* optionalPermissions,
PermissionSet* refusedPermissions);
[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As
AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal
requiredPermissions As PermissionSet, ByVal optionalPermissions As
PermissionSet, ByVal refusedPermissions As PermissionSet) As AssemblyBuilder
[JScript] public function DefineDynamicAssembly(name : AssemblyName, access
: AssemblyBuilderAccess, requiredPermissions : PermissionSet,
optionalPermissions: PermissionSet, refusedPermissions: PermissionSet):

AssemblyBuilder;

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Description

Defines a dynamic assembly with the given name, the given access, and the given permission requests.

Return Value: Represents the dynamic assembly created.

You can specify partial signing of the assembly by specifying AssemblyName.Originator. You can specify full signing of the assembly by specifying AssemblyName.Originator and AssemblyName.KeyPair. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The required permission request. The optional permission request. The refused permission request.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, Evidence evidence, PermissionSet requiredPermissions, PermissionSet optionalPermissions, PermissionSet refusedPermissions);

[C++] public: __sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, Evidence* evidence, PermissionSet* requiredPermissions, PermissionSet* optionalPermissions, PermissionSet* refusedPermissions);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal evidence As Evidence, ByVal requiredPermissions As PermissionSet, ByVal

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optionalPermissions As PermissionSet, ByVal refusedPermissions As
PermissionSet) As AssemblyBuilder
[IScript] public function DefineDynamicAssembly(name : AssemblyName ac

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access

: AssemblyBuilderAccess, evidence : Evidence, requiredPermissions :

PermissionSet, optionalPermissions: PermissionSet, refusedPermissions:

PermissionSet): AssemblyBuilder;

Description

Defines a dynamic assembly with the given name, given access, supplied evidence, and the permission requests.

Return Value: Represents the dynamic assembly created.

Only fully trusted callers can supply their *evidence* when defining a dynamic assembly. The runtime will map the evidence through policy to determine the granted permissions. Semi-trusted callers must supply a **null** evidence. If *evidence* is **null**, the runtime copies the permission sets (that is, the current grant and deny sets) from the caller's assembly to the dynamic assembly being defined and marks policy as resolved. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The evidence supplied for the dynamic assembly. The required permission request. The optional permission request. The refused permission request.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir, PermissionSet requiredPermissions, PermissionSet optionalPermissions, PermissionSet refusedPermissions);

[C++] public: __sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess
access, String* dir, PermissionSet* requiredPermissions, PermissionSet*
optionalPermissions, PermissionSet* refusedPermissions);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As
AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String,
ByVal requiredPermissions As PermissionSet, ByVal optionalPermissions As
PermissionSet, ByVal refusedPermissions As PermissionSet) As AssemblyBuilder

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access
: AssemblyBuilderAccess, dir : String, requiredPermissions : PermissionSet,
optionalPermissions : PermissionSet, refusedPermissions : PermissionSet) :
AssemblyBuilder;

Description

Defines a dynamic assembly with the given name, given access, the name of the directory for saving the assembly, and the permission requests.

Return Value: Represents the dynamic assembly created.

You can specify partial signing of the assembly by specifying AssemblyName.Originator. You can specify full signing of the assembly by specifying AssemblyName.Originator and AssemblyName.KeyPair. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The name of the directory in which the assembly will be saved. If *dir* is **null**, the directory defaults to the current directory. The required permission request. The optional permission request.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir, Evidence evidence, PermissionSet requiredPermissions, PermissionSet optionalPermissions, PermissionSet refusedPermissions);

[C++] public: __sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, String* dir, Evidence* evidence, PermissionSet* requiredPermissions, PermissionSet* optionalPermissions, PermissionSet* refusedPermissions); [VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As Evidence, ByVal requiredPermissions As PermissionSet, ByVal optionalPermissions As PermissionSet, ByVal refusedPermissions As PermissionSet) As AssemblyBuilder

[JScript] public function DefineDynamicAssembly(name : AssemblyName, access : AssemblyBuilderAccess, dir : String, evidence : Evidence, requiredPermissions : PermissionSet, optionalPermissions : PermissionSet, refusedPermissions : PermissionSet) : AssemblyBuilder;

20 Description

Defines a dynamic assembly with the given name, given access, the name of the directory for saving the assembly, supplied evidence, and the permission requests.

Return Value: Represents the dynamic assembly created.

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Only fully trusted callers can supply their evidence when defining a dynamic assembly. The runtime will map the evidence through policy to determine the granted permissions. Semi-trusted callers must supply a null evidence. If evidence is **null**, the runtime copies the permission sets, that is, the current grant and deny sets, from the caller's assembly to the dynamic assembly being defined and marks policy as resolved. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The name of the directory in which the assembly will be saved. If dir is null, the directory defaults to the current directory. The evidence supplied for the dynamic assembly. The required permission request. The optional permission request. The refused permission request.

DefineDynamicAssembly

[C#] public AssemblyBuilder DefineDynamicAssembly(AssemblyName name, AssemblyBuilderAccess access, string dir, Evidence evidence, PermissionSet requiredPermissions, PermissionSet optionalPermissions, PermissionSet refusedPermissions, bool isSynchronized);

[C++] public: sealed AssemblyBuilder*

DefineDynamicAssembly(AssemblyName* name, AssemblyBuilderAccess access, String* dir, Evidence* evidence, PermissionSet* requiredPermissions, PermissionSet* optionalPermissions, PermissionSet* refusedPermissions, bool isSynchronized);

[VB] NotOverridable Public Function DefineDynamicAssembly(ByVal name As AssemblyName, ByVal access As AssemblyBuilderAccess, ByVal dir As String, ByVal evidence As Evidence, ByVal requiredPermissions As PermissionSet,

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ByVal optionalPermissions As PermissionSet, ByVal refusedPermissions As
PermissionSet, ByVal isSynchronized As Boolean) As AssemblyBuilder
[JScript] public function DefineDynamicAssembly(name : AssemblyName, access
: AssemblyBuilderAccess, dir : String, evidence : Evidence, requiredPermissions :
PermissionSet, optionalPermissions : PermissionSet, refusedPermissions :
PermissionSet, isSynchronized : Boolean) : AssemblyBuilder;

Description

Defines a dynamic assembly using the specified name, access mode, storage directory, evidence, permission requests, and synchronization option. *Return Value:* Represents the dynamic assembly created.

Only fully trusted callers can supply their evidence when defining a

System.Security.Policy.Evidence through policy to determine the granted permissions. Semi-trusted callers must supply an System.Security.Policy.Evidence. If evidence is null, the runtime copies the permission sets, that is, the current grant and deny sets, from the caller's System.Reflection.Assembly to the dynamic System.Reflection.Assembly being defined and marks policy as resolved. The unique identity of the dynamic assembly. The mode in which the dynamic assembly will be accessed. The name of the directory in which the dynamic assembly will be saved. If dir is null, the directory defaults to the current directory. The evidence supplied for the dynamic assembly. The required permission request. The optional permission request. The refused permission request. If true, the creation of modules, types, and members in the dynamic assembly are synchronized.

1	DoCallBack
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3	[C#] public void DoCallBack(CrossAppDomainDelegate callBackDelegate);
4	[C++] public:sealed void DoCallBack(CrossAppDomainDelegate*
5	callBackDelegate);
6	[VB] NotOverridable Public Sub DoCallBack(ByVal callBackDelegate As
7	CrossAppDomainDelegate)
8	[JScript] public function DoCallBack(callBackDelegate:
9	CrossAppDomainDelegate);
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11	Description
12	Executes the code in another application domain that is identified by the
13	specified delegate.
14	callBackDelegate can specify a marshal-by-value,
15	System.MarshalByRefObject, or System.ContextBoundObject object. A
16	delegate that specifies a method to call.
17	ExecuteAssembly
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19	[C#] public int ExecuteAssembly(string assemblyFile);
20	[C++] public:sealed int ExecuteAssembly(String* assemblyFile);
21	[VB] NotOverridable Public Function ExecuteAssembly(ByVal assemblyFile As
22	String) As Integer
23	[JScript] public function ExecuteAssembly(assemblyFile : String) : int;
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25	Description

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Execute the **System.Reflection.Assembly** given its file name. The method specified in the .NET Framework header is called.

Return Value: The value returned by the entry point of the assembly.

The method does not spawn a new process, create a new application domain, or execute the entry point method on a new thread. The name of the file from which the assembly is to be loaded.

ExecuteAssembly

[C#] public int ExecuteAssembly(string assemblyFile, Evidence assemblySecurity);

[C++] public: __sealed int ExecuteAssembly(String* assemblyFile, Evidence* assemblySecurity);

[VB] NotOverridable Public Function ExecuteAssembly(ByVal assemblyFile As String, ByVal assemblySecurity As Evidence) As Integer

[JScript] public function ExecuteAssembly(assemblyFile: String,

assemblySecurity: Evidence): int; Executes the specified assembly.

Description

Execute the **System.Reflection.Assembly** given its file name and supplied evidence.

Return Value: The value returned by the entry point of the assembly.

The method does not spawn a new process, create a new application domain, or execute the entry point method on a new thread. The name of the file from which the assembly is to be loaded. Evidence for loading the assembly.

ExecuteAssembly

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Description

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1	
2	[C#] public int ExecuteAssembly(string assemblyFile, Evidence
3	assemblySecurity, string[] args);
4	[C++] public:sealed int ExecuteAssembly(String* assemblyFile, Evidence*
5	assemblySecurity, String* argsgc[]);
6	[VB] NotOverridable Public Function ExecuteAssembly(ByVal assemblyFile As
7	String, ByVal assemblySecurity As Evidence, ByVal args() As String) As Integer
8	[JScript] public function ExecuteAssembly(assemblyFile : String,
9	assemblySecurity: Evidence, args: String[]): int; Executes the assembly given its
10	file name.
11	
ı	

Execute the **System.Reflection.Assembly** given its file name and supplied **System.Security.Policy.Evidence**. Optionally, the **System.Reflection.Assembly** can be loaded into the domain-neutral code area for use by multiple AppDomains. *Return Value:* The value returned by the entry point of the assembly.

The method does not spawn a new process, create a new application domain, or execute the entry point method on a new thread. The name of the file from which the assembly is to be loaded. The supplied evidence for the assembly. The arguments to the entry point of the assembly.

GetAssemblies

[C#] public Assembly[] GetAssemblies();
[C++] public: __sealed Assembly* GetAssemblies() [];
[VB] NotOverridable Public Function GetAssemblies() As Assembly()

1	[JScript] public function GetAssemblies() : Assembly[];
2	
3	Description
4	Gets the assemblies that have been loaded into this application domain.
5	Return Value: An array of assemblies in this application domain.
6	GetCurrentThreadId
7	
8	[C#] public static int GetCurrentThreadId();
9	[C++] public: static int GetCurrentThreadId();
10	[VB] Public Shared Function GetCurrentThreadId() As Integer
11	[JScript] public static function GetCurrentThreadId(): int;
12	
13	Description
14	Gets the current thread identifier.
15	Return Value: A 32-bit signed integer that is the identifier of the current thread.
16	GetData
17	
18	[C#] public object GetData(string name);
19	[C++] public:sealed Object* GetData(String* name);
20	[VB] NotOverridable Public Function GetData(ByVal name As String) As Object
21	[JScript] public function GetData(name : String) : Object;
22	
23	Description
24	
25	

1	Gets the value stored in the current application domain for the specified
2	data name.
3	Return Value: The value of the name property.
4	name can be the value of one of the System.AppDomainSetup properties.
5	The name of an application domain property.
6	GetType
7	
8	[C#] public Type GetType();
9	[C++] public:sealed Type* GetType();
10	[VB] NotOverridable Public Function GetType() As Type
11	[JScript] public function GetType(): Type;
12	
13	Description
14	Gets the type of the current instance.
15	Return Value: A System. Type object.
16	
17	Description
18	Gets the type of the current instance.
19	Return Value: A System.Type object.
20	InitializeLifetimeService
21	
22	[C#] public override object InitializeLifetimeService();
23	[C++] public: Object* InitializeLifetimeService();
24	[VB] Overrides Public Function InitializeLifetimeService() As Object
25	[JScript] public override function InitializeLifetimeService() : Object;

1	
2	Description
3	Gives the System.AppDomain an infinite lifetime by preventing a lease
4	from being created.
5	Return Value: Always null.
6	IsFinalizingForUnload
7	
8	[C#] public bool IsFinalizingForUnload();
9	[C++] public: bool IsFinalizingForUnload();
10	[VB] Public Function IsFinalizingForUnload() As Boolean
11	[JScript] public function IsFinalizingForUnload(): Boolean;
12	
13	Description
14	Indicates whether the common language runtime has started forcing objects
15	to finalize.
16	Return Value: true if the common language runtime has started invoking
17	finalizers, forcing objects to finalize; otherwise, false.
18	Some of the System.AppDomain infrastructure might have been garbage
19	collected before the finalizers started running.
20	Load
21	
22	[C#] public Assembly Load(AssemblyName assemblyRef);
23	[C++] public:sealed Assembly* Load(AssemblyName* assemblyRef);
24	[VB] NotOverridable Public Function Load(ByVal assemblyRef As
25	AssemblyName) As Assembly

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[JScript] public function Load(assemblyRef: AssemblyName): Assembly; Loads an System.Reflection.Assembly into this application domain. Description Loads an System.Reflection.Assembly given its System.Reflection.AssemblyName . Return Value: The loaded assembly. This method should only be used to load an assembly into the current application domain. This method is defined for interoperability callers who cannot call the static Assembly.Load method. An object that describes the assembly to be loaded. Load [C#] public Assembly Load(byte[] rawAssembly); [C++] public: sealed Assembly* Load(unsigned char rawAssembly __gc[]); [VB] NotOverridable Public Function Load(ByVal rawAssembly() As Byte) As Assembly [JScript] public function Load(rawAssembly: Byte[]): Assembly; Description Loads the System.Reflection.Assembly with a COFF based image containing an emitted System.Reflection.Assembly. *Return Value:* The loaded assembly. This method should only be used to load an assembly into the current

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application domain. This method is defined for interoperability callers who cannot

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call the static Assembly.Load method. An array of type byte that is a COFF-based 1 image containing an emitted assembly. 2 Load 3 4 [C#] public Assembly Load(string assemblyString); 5 [C++] public: sealed Assembly* Load(String* assemblyString); 6 [VB] NotOverridable Public Function Load(ByVal assemblyString As String) As 7 Assembly 8 [JScript] public function Load(assemblyString: String): Assembly; 10 Description 11 Loads an System.Reflection.Assembly given its display name. 12 Return Value: The loaded assembly. 13 This method should only be used to load an assembly into the current 14 application domain. This method is defined for interoperability callers who cannot 15 call the static Assembly.Load method. The display name of the assembly. 16 Load 17 18 [C#] public Assembly Load(AssemblyName assemblyRef, Evidence 19 assemblySecurity); 20 [C++] public: sealed Assembly* Load(AssemblyName* assemblyRef, 21 Evidence* assemblySecurity); 22

[JScript] public function Load(assemblyRef: AssemblyName, assemblySecurity:

[VB] NotOverridable Public Function Load(ByVal assemblyRef As

AssemblyName, ByVal assemblySecurity As Evidence) As Assembly

Evidence): Assembly; Loads an System.Reflection.Assembly into this 1 application domain. 2 3 Description 4 Loads an System.Reflection.Assembly given its 5 System.Reflection.AssemblyName. 6 Return Value: The loaded assembly. An object that describes the assembly to be 7 loaded. Evidence for loading the assembly. 8 Load 9 10 [C#] public Assembly Load(byte[] rawAssembly, byte[] rawSymbolStore); 11 [C++] public: __sealed Assembly* Load(unsigned char rawAssembly __gc[], 12 unsigned char rawSymbolStore __gc[]); 13 [VB] NotOverridable Public Function Load(ByVal rawAssembly() As Byte, 14 ByVal rawSymbolStore() As Byte) As Assembly 15 $[JScript]\ public\ function\ Load(rawAssembly: Byte[], rawSymbolStore: Byte[]):$ 16 Assembly; 17 18 Description 19 Loads the System.Reflection.Assembly with a COFF based image 20 containing an emitted System.Reflection.Assembly . The raw bytes representing 21 the symbols for the **System.Reflection.Assembly** are also loaded. 22 Return Value: The loaded assembly. 23 This method should only be used to load an assembly into the current 24

application domain. This method is defined for interoperability callers who cannot

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call the static Assembly.Load method. An array of type **byte** that is a COFF-based image containing an emitted assembly. An array of type **byte** containing the raw bytes representing the symbols for the assembly.

Load

[C#] public Assembly Load(string assemblyString, Evidence assemblySecurity); [C++] public: __sealed Assembly* Load(String* assemblyString, Evidence* assemblySecurity);

[VB] NotOverridable Public Function Load(ByVal assemblyString As String, ByVal assemblySecurity As Evidence) As Assembly

[JScript] public function Load(assemblyString : String, assemblySecurity :

Evidence): Assembly;

Description

Loads an **System.Reflection.Assembly** given its display name.

Return Value: The loaded assembly. The display name of the assembly. Evidence for loading the assembly.

Load

[C#] public Assembly Load(byte[] rawAssembly, byte[] rawSymbolStore,

Evidence securityEvidence);

[C++] public: __sealed Assembly* Load(unsigned char rawAssembly __gc[],

unsigned char rawSymbolStore __gc[], Evidence* securityEvidence);

[VB] NotOverridable Public Function Load(ByVal rawAssembly() As Byte,

ByVal rawSymbolStore() As Byte, ByVal securityEvidence As Evidence) As

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Assembly

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[JScript] public function Load(rawAssembly : Byte[], rawSymbolStore : Byte[], securityEvidence : Evidence) : Assembly;

Description

Loads the **System.Reflection.Assembly** with a COFF based image containing an emitted **System.Reflection.Assembly**. The raw bytes representing the symbols for the **System.Reflection.Assembly** are also loaded.

Return Value: The loaded assembly.

This method should only be used to load an assembly into the current application domain. This method is defined for interoperability callers who cannot call the static Assembly.Load method. An array of type **byte** that is a COFF-based image containing an emitted assembly. An array of type **byte** containing the raw bytes representing the symbols for the assembly. Evidence for loading the assembly.

SetAppDomainPolicy

[C#] public void SetAppDomainPolicy(PolicyLevel domainPolicy);

[C++] public: __sealed void SetAppDomainPolicy(PolicyLevel* domainPolicy);

[VB] NotOverridable Public Sub SetAppDomainPolicy(ByVal domainPolicy As

[JScript] public function SetAppDomainPolicy(domainPolicy: PolicyLevel);

Description

PolicyLevel)

Establishes the security policy level for this application domain. The 1 security policy level. 2 SetCachePath 3 [C#] public void SetCachePath(string path); 5 [C++] public: __sealed void SetCachePath(String* path); 6 [VB] NotOverridable Public Sub SetCachePath(ByVal path As String) 7 [JScript] public function SetCachePath(path : String); 8 9 Description 10 Establishes the specified directory path as the location where assemblies are 11 shadow copied. The fully qualified path to the shadow copy location. 12 SetData 13 14 [C#] public void SetData(string name, object data); 15 [C++] public: __sealed void SetData(String* name, Object* data); 16 [VB] NotOverridable Public Sub SetData(ByVal name As String, ByVal data As 17 Object) 18 [JScript] public function SetData(name : String, data : Object); 19 20 Description 21 Assigns the specified value to the specified application domain property. 22 This method has been superseded by properties of the 23 System.AppDomainSetup class. The following table shows the 24

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System.AppDomainSetup property that corresponds to a value of name. The
name of an application domain property. The value to set the name property.
SetDynamicBase
[C#] public void SetDynamicBase(string path);
[C++] public: void SetDynamicBase(String* path);
[VB] Public Sub SetDynamicBase(ByVal path As String)
[JScript] public function SetDynamicBase(path : String);
Description
Establishes the specified directory path as the location where dynamically
generated files are stored and accessed.
This method sets the System.AppDomainSetup.DynamicBase property of
the internal System.AppDomainSetup object associated with this instance. The
fully qualified path to where dynamic assemblies are stored.
SetPrincipalPolicy
[C#] public void SetPrincipalPolicy(PrincipalPolicy policy);
[C++] public:sealed void SetPrincipalPolicy(PrincipalPolicy policy);
[VB] NotOverridable Public Sub SetPrincipalPolicy(ByVal policy As
PrincipalPolicy)
[JScript] public function SetPrincipalPolicy(policy: PrincipalPolicy);
Description

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Set the class of the default principal object to be attached to threads if they attempt to bind to a principal while executing in this application domain. The class of the principal object to be attached to threads.

SetShadowCopyFiles

[C#] public void SetShadowCopyFiles();

[C++] public: void SetShadowCopyFiles();

[VB] Public Sub SetShadowCopyFiles()

[JScript] public function SetShadowCopyFiles();

Description

Turns on shadow copying.

SetShadowCopyPath

[C#] public void SetShadowCopyPath(string path);

[C++] public: __sealed void SetShadowCopyPath(String* path);

[VB] NotOverridable Public Sub SetShadowCopyPath(ByVal path As String)

[JScript] public function SetShadowCopyPath(path: String);

Description

Establishes the specified directory path as the location of assemblies to be "shadow copied".

This method sets the **System.AppDomainSetup.ShadowCopyDirectories** property of the internal **System.AppDomainSetup** object associated with this instance. A list of directory names, where each name is separated by a semicolon.

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SetThrea	aPrin	cinal
Detrinea	CT TIII	orpar

[C#] public void SetThreadPrincipal(IPrincipal principal);

[C++] public: __sealed void SetThreadPrincipal(IPrincipal* principal);

[VB] NotOverridable Public Sub SetThreadPrincipal(ByVal principal As

IPrincipal)

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[JScript] public function SetThreadPrincipal(principal: IPrincipal);

Description

Set the default principal object to be attached to threads if they attempt to bind to a principal while executing in this application domain. The principal object to be attached to threads.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String;

Description

Obtains the **System.String** representation of the application domain.

Return Value: The friendly name, loader name, and loader context policy of the application domain.

The string representation specifies the friendly name of the application domain.

1	Unload
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	[C#] public eta

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[C#] public static void Unload(AppDomain domain);

[C++] public: static void Unload(AppDomain* domain);

[VB] Public Shared Sub Unload(ByVal domain As AppDomain)

[JScript] public static function Unload(domain : AppDomain);

Description

Removes the specified application domain.

A long period of time can pass before domain unloads because it might be difficult to terminate executing threads. An application domain to be unloaded.

AppDomainSetup class (System)

Unload

Constructors:

AppDomainSetup

Example Syntax:

Unload

ApplicationBase

Unload

ApplicationName

Unload

CachePath

Unload

ConfigurationFile

Unload

1	DynamicBase
2	Unload
3	LicenseFile
4	Unload
5	LoaderOptimization
6	Unload
7	PrivateBinPath
8	Unload
9	PrivateBinPathProbe
10	Unload
11	ShadowCopyDirectories
12	Unload
13	ShadowCopyFiles
14	Unload
15	AppDomainUnloadedException class (System)
16	ToString
17	
18	
19	Description
20	The exception that is thrown when an attempt is made to access an
21	unloaded application domain.
22	System.AppDomainUnloadedException uses the HRESULT
23	COR_E_APPDOMAINUNLOADED, which has the value 0x80131014.
24	AppDomainUnloadedException

Example Syntax:

1	ToString
2	
3	[C#] public AppDomainUnloadedException();
4	[C++] public: AppDomainUnloadedException();
5	[VB] Public Sub New()
6	[JScript] public function AppDomainUnloadedException(); Initializes a new
7	instance of the System.AppDomainUnloadedException class.
8	
9	Description
10	Initializes a new instance of the System.AppDomainUnloadedException
11	class with default properties.
12	The following table shows the initial property values for an instance of
13	System.AppDomainUnloadedException .
14	AppDomainUnloadedException
15	Example Syntax:
16	ToString
17	
18	[C#] public AppDomainUnloadedException(string message);
19	[C++] public: AppDomainUnloadedException(String* message);
20	[VB] Public Sub New(ByVal message As String)
21	[JScript] public function AppDomainUnloadedException(message : String);
22	
23	Description
24	Initializes a new instance of the System.AppDomainUnloadedException
25	class with a specified error message.

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The following table shows the initial property values for an instance of System. App Domain Unloaded Exception . The error message that explains the reason for the exception. AppDomainUnloadedException Example Syntax: **ToString** [C#] protected AppDomainUnloadedException(SerializationInfo info, StreamingContext context); [C++] protected: AppDomainUnloadedException(SerializationInfo* info, StreamingContext context); [VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext) [JScript] protected function AppDomainUnloadedException(info: SerializationInfo, context: StreamingContext); Description Initializes a new instance of the System.AppDomainUnloadedException class with serialized data. This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

AppDomainUnloadedException

Example Syntax:

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[C#] public AppDomainUnloadedException(string message, Exception innerException);

[C++] public: AppDomainUnloadedException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function AppDomainUnloadedException(message: String, innerException: Exception);

Description

Initializes a new instance of the System.AppDomainUnloadedException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If innerException is non-null, then the current Exception is raised in a catch block handling innerException.

HelpLink

HResult

1	InnerException
2	Message
3	Source
4	StackTrace
5	TargetSite
6	ApplicationException class (System)
7	ToString
8	
9	
10	Description
11	The exception that is thrown when a non-fatal application error occurs.
12	System.ApplicationException is thrown by a user program, not by the
13	common language runtime. If you are designing an application that needs to create
14	its own exceptions, derive from the System.ApplicationException class.
15	ApplicationException
16	Example Syntax:
17	ToString
18	
19	[C#] public ApplicationException();
20	[C++] public: ApplicationException();
21	[VB] Public Sub New()
22	[JScript] public function ApplicationException(); Initializes a new instance of the
23	System.ApplicationException class.
24	
25	Description

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Initializes a new instance of the **System.ApplicationException** class with default properties.

The following table shows the initial property values for an instance of **System.ApplicationException**.

ApplicationException

Example Syntax:

ToString

[C#] public ApplicationException(string message);

[C++] public: ApplicationException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function ApplicationException(message : String);

Description

Initializes a new instance of the **System.ApplicationException** class with a specified error message.

The following table shows the initial property values for an instance of **System.ApplicationException**. The error message that explains the reason for the exception.

ApplicationException

Example Syntax:

ToString

[C#] protected ApplicationException(SerializationInfo info, StreamingContext context);

1	[C++] protected: ApplicationException(SerializationInfo* info, StreamingContext
2	context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function ApplicationException(info: SerializationInfo, context
6	: StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.ApplicationException class with
10	serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	ApplicationException
16	Example Syntax:
17	ToString
18	
19	[C#] public ApplicationException(string message, Exception innerException);
20	[C++] public: ApplicationException(String* message, Exception*
21	innerException);
22	[VB] Public Sub New(ByVal message As String, ByVal innerException As
23	Exception)
24	[JScript] public function ApplicationException(message : String, innerException
25	Exception);

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Description

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Initializes a new instance of the System.ApplicationException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If innerException is non-null, then the current Exception is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

ArgIterator structure (System)

ToString

Description

1 Represents a variable-length argument list; that is, the parameters of a function that takes a variable number of arguments. 2 Typically, you use this class for writing compilers. The methods in this 3 class are not generally useful in other kinds of applications. ArgIterator 5 Example Syntax: **ToString** 8 [C#] public ArgIterator(RuntimeArgumentHandle arglist); 9 [C++] public: ArgIterator(RuntimeArgumentHandle arglist); 10 [VB] Public Sub New(ByVal arglist As RuntimeArgumentHandle) 11 [JScript] public function ArgIterator(arglist: RuntimeArgumentHandle); 12 Initializes a new instance of the ArgIterator class. 13 14 Description 15 Initializes a new instance of the ArgIterator class using the specified 16 argument list. An argument list consisting of both required and optional items. 17 ArgIterator 18 Example Syntax: 19 **ToString** 20 21 [C#] unsafe public ArgIterator(RuntimeArgumentHandle arglist, void* ptr); 22 [C++] public: ArgIterator(RuntimeArgumentHandle arglist, void* ptr); 23 End 24

[C#] public void End(); [C++] public: void End(); [VB] Public Sub End() [JScript] public function End(); 5 6 Description 7 Moves the iterator to the end of the variable-length argument list; that is, it 8 invalidates the iterator. 9 Conceptually, this method moves the iterator to the end of the list so that 10 the next call to System.ArgIterator.GetNextArg generates an exception. 11 **Equals** 12 13 [C#] public override bool Equals(object o); 14 [C++] public: bool Equals(Object* o); 15 [VB] Overrides Public Function Equals(ByVal o As Object) As Boolean 16 [JScript] public override function Equals(o: Object): Boolean; 17 18 Description 19 This method is not supported, and always throws NotSupportedException 20 . An object to be compared to this instance. 21 GetHashCode 22 23 [C#] public override int GetHashCode(); 24 [C++] public: int GetHashCode();

1	[VB] Overrides Public Function GetHashCode() As Integer
2	[JScript] public override function GetHashCode(): int;
3	
4	Description
5	Returns the hash code of this object.
6	Return Value: A 32-bit signed integer hash code.
7	GetNextArg
8	
9	[C#] public TypedReference GetNextArg();
10	[C++] public: TypedReference GetNextArg();
11	[VB] Public Function GetNextArg() As TypedReference
12	[JScript] public function GetNextArg(): TypedReference; Returns the next
13	argument in a variable-length argument list.
14	
15	Description
16	Returns the next argument in a variable-length argument list.
17	Return Value: The next argument as a System. TypedReference object.
18	The iterator is automatically advanced to the next argument.
19	GetNextArg
20	
21	[C#] public TypedReference GetNextArg(RuntimeTypeHandle rth);
22	[C++] public: TypedReference GetNextArg(RuntimeTypeHandle rth);
23	[VB] Public Function GetNextArg(ByVal rth As RuntimeTypeHandle) As
24	TypedReference
25	[JScript] public function GetNextArg(rth : RuntimeTypeHandle) :

1	TypedReference;
2	
3	Description
4	Returns the next argument in a variable-length argument list that has a
5	specified type.
6	Return Value: The next argument as a System. TypedReference object.
7	The iterator is automatically advanced to the next argument. A runtime type
8	handle that identifies the type of the argument to retrieve.
9	GetNextArgType
10	
11	[C#] public RuntimeTypeHandle GetNextArgType();
12	[C++] public: RuntimeTypeHandle GetNextArgType();
13	[VB] Public Function GetNextArgType() As RuntimeTypeHandle
14	[JScript] public function GetNextArgType(): RuntimeTypeHandle;
15	
16	Description
17	Returns the type of the next argument.
18	Return Value: The type of the next argument.
19	This method does not advance the iterator to the next argument.
20	GetRemainingCount
21	
22	[C#] public int GetRemainingCount();
23	[C++] public: int GetRemainingCount();
24	[VB] Public Function GetRemainingCount() As Integer
25	[JScript] public function GetRemainingCount(): int;

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Description

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Returns the number of arguments remaining in the argument list.

Return Value: The number of remaining arguments.

ArgumentException class (System)

ToString

Description

The exception that is thrown when one of the arguments provided to a method is not valid.

System.ArgumentException is thrown when a method is invoked and at least one of the passed arguments does not meet the parameter specification of the called method. All instances of System.ArgumentException should carry a meaningful error message describing the invalid argument, as well as the expected range of values for the argument.

ArgumentException

Example Syntax:

ToString

[C#] public ArgumentException();

[C++] public: ArgumentException();

[VB] Public Sub New()

[JScript] public function ArgumentException(); Initializes a new instance of the

System.ArgumentException class.

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nitializes a new instance of the System.ArgumentException class with properties.

The following table shows the initial property values for an instance of .ArgumentException .

ArgumentException

Example Syntax:

CoString

blic ArgumentException(string message);

[C++] public: ArgumentException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function ArgumentException(message : String);

Description

Initializes a new instance of the System.ArgumentException class with a specified error message.

The following table shows the initial property values for an instance of System.ArgumentException . The error message that explains the reason for the exception.

ArgumentException

Example Syntax:

ToString

[C#] protected ArgumentException(SerializationInfo info, StreamingContext context);

[C++] protected: ArgumentException(SerializationInfo* info, StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function ArgumentException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.ArgumentException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

ArgumentException

Example Syntax:

ToString

[C#] public ArgumentException(string message, Exception innerException);[C++] public: ArgumentException(String* message, Exception* innerException);[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function ArgumentException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.ArgumentException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

ArgumentException

Example Syntax:

ToString

[C#] public ArgumentException(string message, string paramName);
[C++] public: ArgumentException(String* message, String* paramName);
[VB] Public Sub New(ByVal message As String, ByVal paramName As String)
[JScript] public function ArgumentException(message : String, paramName :
String);

Description

Initializes a new instance of the **System.ArgumentException** class with a specified error message and the name of the parameter that causes this exception.

The following table shows the initial property values for an instance of **System.ArgumentException**. The error message that explains the reason for the exception. The name of the invalid parameter.

ArgumentException

Example Syntax:

ToString

[C#] public ArgumentException(string message, string paramName, Exception innerException);

[C++] public: ArgumentException(String* message, String* paramName,

Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal paramName As String,

ByVal innerException As Exception)

[JScript] public function ArgumentException(message : String, paramName :

String, innerException: Exception);

Description

Initializes a new instance of the **System.ArgumentException** class with a specified error message, the parameter name, and a reference to the inner exception that is the root cause of this exception.

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When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. The name of the invalid parameter. An instance of System. Exception that is the cause of the current Exception. If inner Exception is non-null, then the current Exception is raised in a catch block handling inner Exception.

HelpLink

HResult

InnerException

Message

ToString

Description

Gets the error message and the parameter name, or only the error message if no parameter name is set.

This property overrides **System.Exception.Message** . The error message should be localized.

ParamName

ToString

[C#] public virtual string ParamName {get;}

[C++] public: __property virtual String* get_ParamName();

1	[VB] Overridable Public ReadOnly Property ParamName As String
2	[JScript] public function get ParamName(): String;
3	
4	Description
5	Gets the name of the parameter that causes this exception.
6	Every System.ArgumentException should carry the name of the
7	parameter that causes this exception. The parameter name should not be localized.
8	Source
9	StackTrace
10	TargetSite
11	GetObjectData
12	
13	[C#] public override void GetObjectData(SerializationInfo info, StreamingContext
14	context);
15	[C++] public: void GetObjectData(SerializationInfo* info, StreamingContext
16	context);
17	[VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo,
18	ByVal context As StreamingContext)
19	[JScript] public override function GetObjectData(info : SerializationInfo, context :
20	StreamingContext);
21	
22	Description
23	Sets the System.Runtime.Serialization.SerializationInfo object with the
24	parameter name and additional exception information.
25	

System.ArgumentException.GetObjectData(System.Runtime.Serialization.StreamingContext) sets a System.Runtime.Serialization.SerializationInfo with all the exception object data targeted for serialization. During deserialization, the exception object is reconstituted from the System.Runtime.Serialization.SerializationInfo transmitted over the stream. The object that holds the serialized object data. The contextual information about the source or destination.

ArgumentNullException class (System)

ToString

Description

The exception that is thrown when **null** is passed to a method that does not accept it as a valid argument.

System.ArgumentNullException uses the HRESULT E_POINTER, which has the value 0x80004003.

ArgumentNullException

Example Syntax:

ToString

[C#] public ArgumentNullException();

[C++] public: ArgumentNullException();

[VB] Public Sub New()

[JScript] public function ArgumentNullException(); Initializes a new instance of the System.ArgumentNullException class.

Description

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Initializes a new instance of the **System.ArgumentNullException** class with default properties.

The following table shows the initial property values for an instance of **System.ArgumentNullException**.

ArgumentNullException

Example Syntax:

ToString

[C#] public ArgumentNullException(string paramName);

[C++] public: ArgumentNullException(String* paramName);

[VB] Public Sub New(ByVal paramName As String)

[JScript] public function ArgumentNullException(paramName : String);

Description

Initializes a new instance of the **System.ArgumentNullException** class with the name of the parameter that causes this exception.

The following table shows the initial property values for an instance of **System.ArgumentNullException**. The name of the parameter that is assigned **null**.

ArgumentNullException

Example Syntax:

ToString

2 context); 3 StreamingContext context); 5 6 StreamingContext) 7 8 context: StreamingContext); 9 10 Description 11 12 with serialized data. 13 14 15 or destination. 17 18 Example Syntax: 19 **ToString** 20 21 22 23 24 25

[C#] protected ArgumentNullException(SerializationInfo info, StreamingContext

[C++] protected: ArgumentNullException(SerializationInfo* info,

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As

[JScript] protected function ArgumentNullException(info: SerializationInfo,

Initializes a new instance of the System.ArgumentNullException class

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source

ArgumentNullException

[C#] public ArgumentNullException(string paramName, string message); [C++] public: ArgumentNullException(String* paramName, String* message); [VB] Public Sub New(ByVal paramName As String, ByVal message As String) [JScript] public function ArgumentNullException(paramName : String, message :

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1	String);
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3	Description
4	Initializes an instance of the System.ArgumentNullException class with a
5	specified error message and the name of the parameter that causes this exception.
6	The following table shows the initial property values for an instance of
7	System.ArgumentNullException. The name of the parameter that is assigned
8	null. The error message that explains the reason for the exception.
9	HelpLink
10	HResult
11	InnerException
12	Message
13	ParamName
14	Source
15	StackTrace
16	TargetSite
17	ArgumentOutOfRangeException class (System)
18	ToString
19	
20	
21	Description
22	The exception that is thrown when the value of an argument is outside the
23	allowable range of values as defined by the invoked method.

 ${\bf System. Argument Out Of Range Exception} \ is \ used \ extensively \ by: \ Classes$ in the System.Collections and System.IO namespaces.

1	ArgumentOutOfRangeException
2	Example Syntax:
3	ToString
4	
5	[C#] public ArgumentOutOfRangeException();
6	[C++] public: ArgumentOutOfRangeException();
7	[VB] Public Sub New()
8	[JScript] public function ArgumentOutOfRangeException(); Initializes a new
9	instance of the System.ArgumentOutOfRangeException class.
10	
11	Description
12	Initializes a new instance of the System.ArgumentOutOfRangeException
13	class with default properties.
14	The following table shows the initial property values for an instance of
15	System.ArgumentOutOfRangeException .
16	ArgumentOutOfRangeException
17	Example Syntax:
18	ToString
19	
20	[C#] public ArgumentOutOfRangeException(string paramName);
21	[C++] public: ArgumentOutOfRangeException(String* paramName);
22	[VB] Public Sub New(ByVal paramName As String)
23	[JScript] public function ArgumentOutOfRangeException(paramName : String);
24	
25	Description

or destination.

Argument Out Of Range Exception

1	Initializes a new instance of the System.ArgumentOutOfRangeException
2	class with the name of the parameter that causes this exception.
3	The following table shows the initial property values for an instance of
4	System.ArgumentOutOfRangeException. The name of the invalid parameter.
5	ArgumentOutOfRangeException
6	Example Syntax:
7	ToString
8	
9	[C#] protected ArgumentOutOfRangeException(SerializationInfo info,
10	StreamingContext context);
11	[C++] protected: ArgumentOutOfRangeException(SerializationInfo* info,
12	StreamingContext context);
13	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
14	StreamingContext)
15	[JScript] protected function ArgumentOutOfRangeException(info:
16	SerializationInfo, context: StreamingContext);
17	
18	Description
19	Initializes a new instance of the System.ArgumentOutOfRangeException
20	class with serialized data.
21	This constructor is called during deserialization to reconstitute the
22	exception object transmitted over a stream. For more information, see . The object
23	that holds the serialized object data. The contextual information about the source

Example Syntax: **ToString** 2 3 [C#] public ArgumentOutOfRangeException(string paramName, string message); [C++] public: ArgumentOutOfRangeException(String* paramName, String* message); 6 [VB] Public Sub New(ByVal paramName As String, ByVal message As String) 7 [JScript] public function ArgumentOutOfRangeException(paramName: String, message: String); 10 Description 11 Initializes a new instance of the System.ArgumentOutOfRangeException 12 class with a specified error message and the name of the parameter that causes this 13 exception. 14 The following table shows the initial property values for an instance of 15 System.ArgumentOutOfRangeException. The name of the invalid parameter. 16 The error message that explains the reason for the exception. 17 ArgumentOutOfRangeException 18 Example Syntax: 19 **ToString** 20 21 [C#] public ArgumentOutOfRangeException(string paramName, object 22 actualValue, string message); 23 [C++] public: ArgumentOutOfRangeException(String* paramName, Object* 24 actualValue, String* message); 25

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[VB] Public Sub New(ByVal paramName As String, ByVal actualValue As Object, ByVal message As String) [JScript] public function ArgumentOutOfRangeException(paramName: String, actualValue: Object, message: String); Description Initializes a new instance of the System.ArgumentOutOfRangeException class with a specified error message, the parameter name, and the value of the argument. This constructor with the additional argument actual Value is not used

within the .NET Framework class library. The

System.ArgumentOutOfRangeException.ActualValue property is provided so that applications can make use of the available argument value. The name of the invalid parameter. The value of the argument that causes this exception. The error message that explains the reason for the exception.

ActualValue

ToString

[C#] public virtual object ActualValue {get;}

[C++] public: __property virtual Object* get_ActualValue();

[VB] Overridable Public ReadOnly Property ActualValue As Object

[JScript] public function get ActualValue() : Object;

Description

Gets the argument value that causes this exception.

1	The System.ArgumentOutOfRangeException.ActualValue property is
2	assigned a value at the time of object construction. If the
3	System.ArgumentOutOfRangeException.ActualValue property value is not
4	null, a string representation of the value is then appended to the message string
5	held by the System.ArgumentOutOfRangeException.Message property.
6	HelpLink
7	HResult
8	InnerException
9	Message
10	ToString
11	
12	
13	Description
14	Gets the error message and the string representation of the invalid argument
15	value, or only the error message if the argument value is null.
16	This property overrides System.ArgumentException.Message.
17	ParamName
18	Source
19	StackTrace
20	TargetSite
21	GetObjectData
22	
23	[C#] public override void GetObjectData(SerializationInfo info, StreamingContext
24	context);
25	[C++] public: void GetObjectData(SerializationInfo* info, StreamingContext

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context)
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[VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo,

ByVal context As StreamingContext)

 $[JScript]\ public\ override\ function\ GetObjectData (info: SerializationInfo,\ context: line of the context of the context$

StreamingContext);

Description

Sets the **System.Runtime.Serialization.SerializationInfo** object with the invalid argument value and additional exception information.

System.ArgumentOutOfRangeException.GetObjectData(System.Runtime.Serialization.StreamingContext) sets a System.Runtime.Serialization.SerializationInfo with all the exception object data targeted for serialization. During deserialization, the exception object is reconstituted from the

System.Runtime.Serialization.SerializationInfo transmitted over the stream.

The object that holds the serialized object data. The contextual information about the source or destination.

ArithmeticException class (System)

ToString

Description

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The exception that is thrown for errors in an arithmetic, casting, or conversion operation.

1	System.ArithmeticException is the base class for
2	$System. Divide By Zero Exception\ ,\ System. Not Finite Number Exception\ ,\ and$
3	System.OverflowException . In general, use one of the derived classes of
4	System.ArithmeticException to more precisely indicate the exact nature of the
5	error. Throw an System.ArithmeticException if you are only interested in
6	capturing a general arithmetic error.
7	ArithmeticException
8	Example Syntax:
9	ToString
10	
11	[C#] public ArithmeticException();
12	[C++] public: ArithmeticException();
13	[VB] Public Sub New()
14	[JScript] public function ArithmeticException(); Initializes a new instance of the
15	System.ArithmeticException class.
16	
17	Description
18	Initializes a new instance of the System.ArithmeticException class with
19	default properties.
20	The following table shows initial property values for an instance of
21	System.ArithmeticException .

ArithmeticException

Example Syntax:

ToString

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2	[C#] public ArithmeticException(string message);
3	[C++] public: ArithmeticException(String* message);
4	[VB] Public Sub New(ByVal message As String)
5	[JScript] public function ArithmeticException(message : String);
6	
7	Description
8	Initializes a new instance of the System.ArithmeticException class with a
9	specified error message.
10	The following table shows initial property values for an instance of
11	System.ArithmeticException. The error message that explains the reason for the
12	exception.
13	ArithmeticException
14	Example Syntax:
15	ToString
16	
17	[C#] protected ArithmeticException(SerializationInfo info, StreamingContext
18	context);
19	[C++] protected: ArithmeticException(SerializationInfo* info, StreamingContext
20	context);
21	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
22	StreamingContext)
23	[JScript] protected function ArithmeticException(info: SerializationInfo, context:
24	StreamingContext);
25	

Description

Initializes a new instance of the **System.ArithmeticException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

ArithmeticException

Example Syntax:

ToString

[C#] public ArithmeticException(string message, Exception innerException);[C++] public: ArithmeticException(String* message, Exception* innerException);[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function ArithmeticException(message : String, innerException : Exception);

Description

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Initializes a new instance of the **System.ArithmeticException** class with a specified error message and a reference to the exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the $\mathbf{System}.\mathbf{Exception}.\mathbf{Inner}\mathbf{Exception}$ property of X should contain a reference

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to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System.Exception that is the cause of the current Exception. If innerException is non-null, then the current Exception is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

Array class (System)

ToString

Description

Provides methods for creating, manipulating, searching and sorting arrays, thereby serving as the base class for all arrays in the common language runtime.

An element is a value in the System.Array. The length of an System.Array is the total number of elements it can contain. The rank of an System.Array is the number of dimensions in the System.Array. The lower bound or lowbound of a dimension of an System.Array is the starting index of

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1	that dimension of the System.Array; a multidimensional System.Array can have
2	different bounds for each dimension.
3	Array
4	Example Syntax:
5	ToString
6	
7	[C#] protected Array();
8	[C++] protected: Array();
9	[VB] Protected Sub New()
10	[JScript] protected function Array();
11	IsFixedSize
12	ToString
13	
14	[C#] public virtual bool IsFixedSize {get;}
15	[C++] public:property virtual bool get_IsFixedSize();
16	[VB] Overridable Public ReadOnly Property IsFixedSize As Boolean
17	[JScript] public function get IsFixedSize() : Boolean;
18	
19	Description
20	Gets a value indicating whether the System.Array has a fixed size.
21	This method implements the System.Collections.IList interface. It can be
22	overridden by a derived class.
23	IsReadOnly
24	ToString
25	

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2	[C#] public virtual bool IsReadOnly {get;}
3	[C++] public:property virtual bool get_IsReadOnly();
4	[VB] Overridable Public ReadOnly Property IsReadOnly As Boolean
5	[JScript] public function get IsReadOnly(): Boolean;
6	
7	Description
8	Gets a value indicating whether the System.Array is read-only.
9	This method implements the System.Collections.IList interface. It can be
10	overridden by a derived class.
11	IsSynchronized
12	ToString
13	
14	[C#] public virtual bool IsSynchronized {get;}
15	[C++] public:property virtual bool get_IsSynchronized();
16	[VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
17	[JScript] public function get IsSynchronized(): Boolean;
18	
19	Description
20	Gets a value indicating whether access to the System.Array is
21	synchronized (thread-safe).
22	This property implements the System.Collections.ICollection interface.
23	Length
24	ToString
25	

```
[C#] public int Length {get;}
    [C++] public: __property int get_Length();
    [VB] Public ReadOnly Property Length As Integer
    [JScript] public function get Length(): int;
6
    Description
7
           Gets the total number of elements in all the dimensions of the
8
    System.Array.
9
           Rank
10
           ToString
11
12
    [C#] public int Rank {get;}
13
    [C++] public: property int get Rank();
14
    [VB] Public ReadOnly Property Rank As Integer
15
    [JScript] public function get Rank(): int;
16
17
    Description
18
           Gets the rank (number of dimensions) of the System.Array.
19
           SyncRoot
20
           ToString
21
22
    [C#] public virtual object SyncRoot {get;}
23
    [C++] public: __property virtual Object* get_SyncRoot();
    [VB] Overridable Public ReadOnly Property SyncRoot As Object
```

23

24

[JScript] public function get SyncRoot(): Object;

Description

Gets an object that can be used to synchronize access to the System.Array

This property implements the **System.Collections.ICollection** interface. BinarySearch

[C#] public static int BinarySearch(Array array, object value);

[C++] public: static int BinarySearch(Array* array, Object* value);

[VB] Public Shared Function BinarySearch(ByVal array As Array, ByVal value As Object) As Integer

[JScript] public static function BinarySearch(array: Array, value: Object): int; Searches a one-dimensional sorted **System.Array** for a value, using a binary search algorithm.

Description

Searches a one-dimensional sorted **System.Array** for a specific element, using the **System.IComparable** interface implemented by each element of the **System.Array** and by the specified **System.Object**.

Return Value: The index of value in the **System.Array**, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the first element that is larger than value.

The *value* parameter and each element of *array* must implement the **System.IComparable** interface, which is used for comparisons. If *array* 's

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elements are not already sorted in increasing value according to the System.IComparable implementation, the result might be incorrect. Duplicate elements are allowed. The one-dimensional System.Array to search. The System.Object to search for.

BinarySearch

[C#] public static int BinarySearch(Array array, object value, IComparer comparer);

[C++] public: static int BinarySearch(Array* array, Object* value, IComparer* comparer);

[VB] Public Shared Function BinarySearch(ByVal array As Array, ByVal value As Object, ByVal comparer As IComparer) As Integer [JScript] public static function BinarySearch(array : Array, value : Object,

comparer : IComparer) : int;

Description

Searches a one-dimensional sorted **System.Array** for a value, using the specified **System.Collections.IComparer** interface.

Return Value: The index of value in the System.Array, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the first element that is larger than value.

The comparer customizes how the elements are compared. For example, you can use a **System.Collections.CaseInsensitiveComparer** instance as the comparer to perform case-insensitive string searches. The one-dimensional **System.Array** to search. The **System.Object** to search for. The

System.Collections.IComparer implementation to use when comparing elements.

BinarySearch

[C#] public sta

[C#] public static int BinarySearch(Array array, int index, int length, object value); [C++] public: static int BinarySearch(Array* array, int index, int length, Object* value);

[VB] Public Shared Function BinarySearch(ByVal array As Array, ByVal index As Integer, ByVal length As Integer, ByVal value As Object) As Integer [JScript] public static function BinarySearch(array : Array, index : int, length : int, value : Object) : int;

Description

Searches a section of a one-dimensional sorted **System.Array** for a value, using the **System.IComparable** interface implemented by each element of the **System.Array** and by the specified value.

Return Value: The index of value in the **System.Array**, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the first element that is larger than value.

The *value* parameter and each element of *array* must implement the **System.IComparable** interface, which is used for comparisons. If *array* 's elements are not already sorted in increasing value according to the **System.IComparable** implementation, the result might be incorrect. Duplicate elements are allowed. The one-dimensional **System.Array** to search. The starting

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index of the range to search. The length of the range to search. The **System.Object** to search for.

BinarySearch

[C#] public static int BinarySearch(Array array, int index, int length, object value, IComparer comparer);

[C++] public: static int BinarySearch(Array* array, int index, int length, Object* value, IComparer* comparer);

[VB] Public Shared Function BinarySearch(ByVal array As Array, ByVal index As Integer, ByVal length As Integer, ByVal value As Object, ByVal comparer As IComparer) As Integer

[JScript] public static function BinarySearch(array: Array, index: int, length: int, value: Object, comparer: IComparer): int;

Description

Searches a section of a one-dimensional sorted **System.Array** for a value, using the specified **System.Collections.IComparer** interface.

Return Value: The index of value in the **System.Array**, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the first element that is larger than value.

The comparer customizes how the elements are compared. For example, you can use a **System.Collections.CaseInsensitiveComparer** instance as the comparer to perform case-insensitive string searches. The one-dimensional **System.Array** to search. The starting index of the range to search. The length of the range to search. The **System.Object** to search for. The

1	System.Collections.IComparer implementation to use when comparing
2	elements.
3	Clear
4	
5	[C#] public static void Clear(Array array, int index, int length);
6	[C++] public: static void Clear(Array* array, int index, int length);
7	[VB] Public Shared Sub Clear(ByVal array As Array, ByVal index As Integer,
8	ByVal length As Integer)
9	[JScript] public static function Clear(array: Array, index: int, length: int);
10	
11	Description
12	Sets a range of elements in the System. Array to zero or to null.
13	Reference-type elements are set to null. Value-type elements are set to
14	zero. The System.Array whose elements need to be cleared. The starting index of
15	the range of elements to clear. The number of elements to clear.
16	Clone
17	
18	[C#] public virtual object Clone();
19	[C++] public: virtual Object* Clone();
20	[VB] Overridable Public Function Clone() As Object
21	[JScript] public function Clone(): Object;
22	
23	Description
24	Creates a shallow copy of the System.Array.
25	Return Value: A shallow copy of the System.Array.

1	This method can be overridden by a derived class.
2	Сору
3	
4	[C#] public static void Copy(Array sourceArray, Array destinationArray, int
5	length);
6	[C++] public: static void Copy(Array* sourceArray, Array* destinationArray, int
7	length);
8	[VB] Public Shared Sub Copy(ByVal sourceArray As Array, ByVal
9	destinationArray As Array, ByVal length As Integer)
10	[JScript] public static function Copy(sourceArray: Array, destinationArray:
11	Array, length: int); Copies a section of one System.Array to another
12	System.Array and performs type downcasting as required.
13	
14	Description
15	Copies a range of elements from an System.Array starting at the first
16	element and pastes them into another System.Array starting at the first element.
17	sourceArray and destinationArray must have the same number of
18	dimensions. The System.Array that contains the data to copy. The System.Array
19	that receives the data. The number of elements to copy.
20	Сору
21	
22	[C#] public static void Copy(Array sourceArray, int sourceIndex, Array
23	destinationArray, int destinationIndex, int length);
24	[C++] public: static void Copy(Array* sourceArray, int sourceIndex, Array*
25	destinationArray, int destinationIndex, int length);

1	[VB] Public Shared Sub Copy(By val sourceArray As Array, By val sourceIndex
2	As Integer, ByVal destinationArray As Array, ByVal destinationIndex As Integer,
3	ByVal length As Integer)
4	[JScript] public static function Copy(sourceArray : Array, sourceIndex : int,
5	destinationArray: Array, destinationIndex: int, length: int);
6	
7	Description
8	Copies a range of elements from an System.Array starting at the specified
9	source index and pastes them to another System.Array starting at the specified
10	destination index.
11	sourceArray and destinationArray must have the same number of
12	dimensions. The System.Array that contains the data to copy. The index in the
13	sourceArray at which copying begins. The System.Array that receives the data.
14	The index in the <i>destinationArray</i> at which storing begins. The number of
15	elements to copy.
16	СоруТо
17	
18	[C#] public virtual void CopyTo(Array array, int index);
19	[C++] public: virtual void CopyTo(Array* array, int index);
20	[VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal index As
21	Integer)
22	[JScript] public function CopyTo(array: Array, index: int);
23	
24	Description
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Copies all the elements of the current one-dimensional System.Array to the specified one-dimensional System.Array starting at the specified destination System.Array index.

This method can be overridden by a derived class. The one-dimensional **System.Array** that is the destination of the elements copied from the current **System.Array**. The zero-based relative index in *array* at which copying begins.

CreateInstance

[C#] public static Array CreateInstance(Type elementType, int length);

[C++] public: static Array* CreateInstance(Type* elementType, int length);

[VB] Public Shared Function CreateInstance(ByVal elementType As Type, ByVal

length As Integer) As Array

[JScript] public static function CreateInstance(elementType: Type, length: int):

Array; Initializes a new instance of the System.Array class.

Description

Creates a one-dimensional **System.Array** of the specified **System.Type** and length, with zero-based indexing.

Return Value: A new one-dimensional System.Array of the specified System.Type with the specified length, using zero-based indexing.

Unlike most classes, System.Array provides the

System.Array.CreateInstance(System.Type,System.Int32) method, instead of public constructors, to allow for late bound access. The System.Type of

System.Array to create. The size of the System.Array to create.

CreateInstance

1	
2	[C#] public static Array CreateInstance(Type elementType, int[] lengths);
3	[C++] public: static Array* CreateInstance(Type* elementType, int lengths
4	gc[]);
5	[VB] Public Shared Function CreateInstance(ByVal elementType As Type, ByVal
6	lengths() As Integer) As Array
7	[JScript] public static function CreateInstance(elementType: Type, lengths: int[])
8	: Array;
9	
10	Description
11	Creates a multidimensional System.Array of the specified System.Type
12	and dimension lengths, with zero-based indexing.
13	Return Value: A new multidimensional System.Array of the specified
14	System. Type with the specified length for each dimension, using zero-based
15	indexing.
16	Unlike most classes, System.Array provides the
17	System.Array.CreateInstance(System.Type,System.Int32) method, instead of
18	public constructors, to allow for late bound access. The System.Type of
19	System.Array to create. An array that contains the size of each dimension of the
20	System.Array to create.
21	CreateInstance
22	
23	[C#] public static Array CreateInstance(Type elementType, int length1, int
24	length2);
25	[C++] public: static Array* CreateInstance(Type* elementType, int length1, int

1	length2);
2	[VB] Public Shared Function CreateInstance(ByVal elementType As Type, ByVa
3	length1 As Integer, ByVal length2 As Integer) As Array
4	[JScript] public static function CreateInstance(elementType: Type, length1: int,
5	length2: int): Array;
6	
7	Description
8	Creates a two-dimensional System.Array of the specified System.Type
9	and dimension lengths, with zero-based indexing.
10	Return Value: A new two-dimensional System.Array of the specified
11	System.Type with the specified length for each dimension, using zero-based
12	indexing.
13	Unlike most classes, System.Array provides the
14	System.Array.CreateInstance(System.Type,System.Int32) method, instead of
15	public constructors, to allow for late bound access. The System.Type of
16	System.Array to create. The size of the first dimension of the System.Array to
17	create. The size of the second dimension of the System.Array to create.
18	CreateInstance
19	
20	[C#] public static Array CreateInstance(Type elementType, int[] lengths, int[]
21	lowerBounds);
22	[C++] public: static Array* CreateInstance(Type* elementType, int lengths
23	gc[], int lowerBoundsgc[]);
24	[VB] Public Shared Function CreateInstance(ByVal elementType As Type, ByVa
25	lengths() As Integer, ByVal lowerBounds() As Integer) As Array

[JScript] public static function CreateInstance(elementType : Type, lengths : int[], lowerBounds : int[]) : Array;

Description

Creates a multidimensional **System.Array** of the specified **System.Type** and dimension lengths, with the specified lower bounds.

Return Value: A new multidimensional System.Array of the specified System.Type with the specified length and lower bound for each dimension.

Unlike most classes, System.Array provides the

System.Array.CreateInstance(System.Type,System.Int32) method, instead of
public constructors, to allow for late bound access. The System.Type of

System.Array to create. A one-dimensional array that contains the size of each
dimension of the System.Array to create. A one-dimensional array that contains
the lower bound (starting index) of each dimension of the System.Array to create.

CreateInstance

[C#] public static Array CreateInstance(Type elementType, int length1, int length2, int length3);

[C++] public: static Array* CreateInstance(Type* elementType, int length1, int length2, int length3);

[VB] Public Shared Function CreateInstance(ByVal elementType As Type, ByVal length1 As Integer, ByVal length2 As Integer, ByVal length3 As Integer) As Array

[JScript] public static function CreateInstance(elementType : Type, length1 : int, length2 : int, length3 : int) : Array;

Description

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Creates a three-dimensional **System.Array** of the specified **System.Type** and dimension lengths, with zero-based indexing.

Return Value: A new three-dimensional System.Array of the specified System.Type with the specified length for each dimension, using zero-based indexing.

Unlike most classes, System.Array provides the

System.Array.CreateInstance(System.Type,System.Int32) method, instead of
public constructors, to allow for late bound access. The System.Type of

System.Array to create. The size of the first dimension of the System.Array to
create. The size of the second dimension of the System.Array to create. The size
of the third dimension of the System.Array to create.

GetEnumerator

[C#] public virtual IEnumerator GetEnumerator();

[C++] public: virtual IEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator;

Description

Returns an System.Collections.IEnumerator for the System.Array.

Return Value: An System.Collections.IEnumerator for the System.Array.

This method can be overridden by a derived class.

GetLength

1	
2	[C#] public int GetLength(int dimension);
3	[C++] public: int GetLength(int dimension);
4	[VB] Public Function GetLength(ByVal dimension As Integer) As Integer
5	[JScript] public function GetLength(dimension : int) : int;
6	
7	Description
8	Gets the number of elements in the specified dimension of the
9	System.Array.
10	Return Value: The number of elements in the specified dimension.
11	For example, GetLength(0) returns the number of elements in the first
12	dimension of the System.Array. A zero-based dimension of the System.Array
13	whose length needs to be determined.
14	GetLowerBound
15	
16	[C#] public int GetLowerBound(int dimension);
17	[C++] public: int GetLowerBound(int dimension);
18	[VB] Public Function GetLowerBound(ByVal dimension As Integer) As Integer
19	[JScript] public function GetLowerBound(dimension: int): int;
20	
21	Description
22	Gets the lower bound of the specified dimension in the System.Array.
23	Return Value: The lower bound of the specified dimension in the System.Array.
24	For example, GetLowerBound(0) returns the lower bound for the indexes
25	of the first dimension of the System.Array, and GetLowerBound(Rank - 1)

1	returns the lower bound of the last dimension of the System.Array. A zero-based
2	dimension of the System.Array whose lower bound needs to be determined.
3	GetUpperBound
4	
5	[C#] public int GetUpperBound(int dimension);
6	[C++] public: int GetUpperBound(int dimension);
7	[VB] Public Function GetUpperBound(ByVal dimension As Integer) As Integer
8	[JScript] public function GetUpperBound(dimension: int): int;
9	
10	Description
11	Gets the upper bound of the specified dimension in the System.Array.
12	Return Value: The upper bound of the specified dimension in the System.Array.
13	For example, GetUpperBound(0) returns the upper bound for the indexes of
14	the first dimension of the System.Array and GetUpperBound(Rank - 1) returns
15	the upper bound of the last dimension of the System.Array . A zero-based
16	dimension of the System.Array whose upper bound needs to be determined.
17	GetValue
18	
19	[C#] public object GetValue(int index);
20	[C++] public: Object* GetValue(int index);
21	[VB] Public Function GetValue(ByVal index As Integer) As Object
22	[JScript] public function GetValue(index : int) : Object;
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24	Description
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Gets the value at the specified position in a one-dimensional System.Array

Return Value: The value at the specified position in the one-dimensional System.Array.

The System.Array.GetLowerBound(System.Int32) and System.Array.GetUpperBound(System.Int32) methods can determine whether the value of *index* is out of bounds. The position of the value to get from the System.Array.

GetValue

[C#] public object GetValue(int[] indices);

[C++] public: Object* GetValue(int indices gc[]);

[VB] Public Function GetValue(ByVal indices() As Integer) As Object

[JScript] public function GetValue(indices : int[]) : Object; Gets the values of the

System.Array elements at the specified indexes.

Description

Gets the value at the specified position in a multidimensional System.Array.

Return Value: The value at the specified position in the System.Array.

The number of elements in *indices* must equal the number of dimensions in the **System.Array**. All elements in the *indices* array must collectively specify the position of the desired element in the multidimensional **System.Array**. A one-dimensional array of indexes that specifies the position of the element to get from the **System.Array**.

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1	GetValue
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3	[C#] public object GetValue(int index1, int index2);
4	[C++] public: Object* GetValue(int index1, int index2);
5	[VB] Public Function GetValue(ByVal index1 As Integer, ByVal index2 As
6	Integer) As Object
7	[JScript] public function GetValue(index1: int, index2: int): Object;
8	
9	Description
10	Gets the value at the specified position in a two-dimensional System.Array
11	•
12	Return Value: The value at the specified position in the System.Array.
13	The System.Array.GetLowerBound(System.Int32) and
14	System.Array.GetUpperBound(System.Int32) methods can determine whether
15	any of the indexes is out of bounds. The first-dimension index of the
16	System.Array element to get. The second-dimension index of the System.Array
17	element to get.
18	GetValue
19	
20	[C#] public object GetValue(int index1, int index2, int index3);
21	[C++] public: Object* GetValue(int index1, int index2, int index3);
22	[VB] Public Function GetValue(ByVal index1 As Integer, ByVal index2 As
23	Integer, ByVal index3 As Integer) As Object
24	[JScript] public function GetValue(index1: int, index2: int, index3: int): Object;
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Description

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Gets the value at the specified position in a three-dimensional System.Array.

Return Value: The value at the specified position in the System.Array.

The System.Array.GetLowerBound(System.Int32) and
System.Array.GetUpperBound(System.Int32) methods can determine whether
any of the indexes is out of bounds. The first-dimension index of the
System.Array element to get. The second-dimension index of the System.Array
element to get. The third-dimension index of the System.Array element to get.

IndexOf

[C#] public static int IndexOf(Array array, object value);

[C++] public: static int IndexOf(Array* array, Object* value);

[VB] Public Shared Function IndexOf(ByVal array As Array, ByVal value As Object) As Integer

[JScript] public static function IndexOf(array: Array, value: Object): int; Returns the index of the first occurrence of a value in a one-dimensional **System.Array** or in a portion of the **System.Array**.

Description

Searches for the specified **System.Object** and returns the index of the first occurrence within the entire one-dimensional **System.Array**.

Return Value: The index of the first occurrence of value within the entire array, if found; otherwise, the lower bound of the array - 1.

The one-dimensional **System.Array** is searched forward starting at the first element and ending at the last element. The elements are compared to the specified value using the **System.Object.Equals(System.Object)** method. The one-dimensional **System.Array** to search. The **System.Object** to locate in *array*.

IndexOf

[C#] public static int IndexOf(Array array, object value, int startIndex);
[C++] public: static int IndexOf(Array* array, Object* value, int startIndex);
[VB] Public Shared Function IndexOf(ByVal array As Array, ByVal value As
Object, ByVal startIndex As Integer) As Integer
[JScript] public static function IndexOf(array: Array, value: Object, startIndex: int): int;

Description

Searches for the specified **System.Object** and returns the index of the first occurrence within the section of the one-dimensional **System.Array** that extends from the specified index to the last element.

Return Value: The index of the first occurrence of value within the section of array that extends from startIndex to the last element, if found; otherwise, the lower bound of the array - 1.

The one-dimensional **System.Array** is searched forward starting at startIndex and ending at the last element. The elements are compared to the specified value using the **System.Object.Equals(System.Object)** method. The one-dimensional **System.Array** to search. The **System.Object** to locate in array. The starting index of the search.

IndexOf

[C#] public static int IndexOf(Array array, object value, int startIndex, int count); [C++] public: static int IndexOf(Array* array, Object* value, int startIndex, int count);

[VB] Public Shared Function IndexOf(ByVal array As Array, ByVal value As Object, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public static function IndexOf(array : Array, value : Object, startIndex : int, count : int) : int;

Description

Searches for the specified **System.Object** and returns the index of the first occurrence within the section of the one-dimensional **System.Array** that starts at the specified index and contains the specified number of elements.

Return Value: The index of the first occurrence of value within the section of array that starts at startIndex and contains count number of elements, if found; otherwise, the lower bound of the array - 1.

The one-dimensional **System.Array** is searched forward starting at startIndex and ending at startIndex + count - 1. The elements are compared to the specified value using the **System.Object.Equals(System.Object)** method. The one-dimensional **System.Array** to search. The **System.Object** to locate in array. The starting index of the search. The number of elements in the section to search.

Initialize

[C#] public void Initialize();

1	[C++] public: void Initialize();
2	[VB] Public Sub Initialize()
3	[JScript] public function Initialize();
4	и
5	Description
6	Initializes every element of the value-type System.Array by calling the
7	default constructor of the value type.
8	This method must not be used on reference-type arrays.
9	LastIndexOf
10	
11	[C#] public static int LastIndexOf(Array array, object value);
12	[C++] public: static int LastIndexOf(Array* array, Object* value);
13	[VB] Public Shared Function LastIndexOf(ByVal array As Array, ByVal value As
14	Object) As Integer
15	[JScript] public static function LastIndexOf(array : Array, value : Object) : int;
16	Returns the index of the last occurrence of a value in a one-dimensional
17	System.Array or in a portion of the System.Array.
18	
19	Description
20	Searches for the specified System.Object and returns the index of the last
21	occurrence within the entire one-dimensional System.Array.
22	Return Value: The index of the last occurrence of value within the entire array, if
23	found; otherwise, the lower bound of the array - 1.
24	The one-dimensional System.Array is searched backward starting at the
25	last element and ending at the first element. The elements are compared to the

specified value using the **System.Object.Equals(System.Object)** method. The one-dimensional **System.Array** to search. The **System.Object** to locate in *array*.

LastIndexOf

[C#] public static int LastIndexOf(Array array, object value, int startIndex);
[C++] public: static int LastIndexOf(Array* array, Object* value, int startIndex);
[VB] Public Shared Function LastIndexOf(ByVal array As Array, ByVal value As Object, ByVal startIndex As Integer) As Integer
[JScript] public static function LastIndexOf(array: Array, value: Object, startIndex: int): int;

Description

Searches for the specified **System.Object** and returns the index of the last occurrence within the section of the one-dimensional **System.Array** that extends from the first element to the specified index.

Return Value: The index of the last occurrence of value within the section of array that extends from the first element to startIndex, if found; otherwise, the lower bound of the array - 1.

The one-dimensional **System.Array** is searched backward starting at startIndex and ending at the first element. The elements are compared to the specified value using the **System.Object.Equals(System.Object)** method. The one-dimensional **System.Array** to search. The **System.Object** to locate in array. The starting index of the backward search.

LastIndexOf

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[C#] public static int LastIndexOf(Array array, object value, int startIndex, int count);

[C++] public: static int LastIndexOf(Array* array, Object* value, int startIndex, int count);

[VB] Public Shared Function LastIndexOf(ByVal array As Array, ByVal value As Object, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public static function LastIndexOf(array: Array, value: Object, startIndex : int, count : int) : int;

Description

Searches for the specified System. Object and returns the index of the last occurrence within the section of the one-dimensional System. Array that contains the specified number of elements and ends at the specified index.

Return Value: The index of the last occurrence of value within the section of array that contains *count* number of elements and ends at *startIndex*, if found; otherwise, the lower bound of the array - 1.

The one-dimensional System.Array is searched backward starting at startIndex and ending at startIndex - count + 1. The elements are compared to the specified value using the System.Object.Equals(System.Object) method. The one-dimensional System.Array to search. The System.Object to locate in array. The starting index of the backward search. The number of elements in the section to search.

Reverse

1	
2	[C#] public static void Reverse(Array array);
3	[C++] public: static void Reverse(Array* array);
4	[VB] Public Shared Sub Reverse(ByVal array As Array)
5	[JScript] public static function Reverse(array : Array); Reverses the order of the
6	elements in a one-dimensional System.Array or in a portion of the System.Array
7	
8	
9	Description
10	Reverses the sequence of the elements in the entire one-dimensional
11	System.Array.
12	After a call to this method, the element at $myArray[i]$, where i is any index
13	in the array, moves to myArray[j], where j equals (myArray.Length +
14	myArray.GetLowerBound(0)) - (i - myArray.GetLowerBound(0)) - 1. The one-
15	dimensional System.Array to reverse.
16	Reverse
17	
18	[C#] public static void Reverse(Array array, int index, int length);
19	[C++] public: static void Reverse(Array* array, int index, int length);
20	[VB] Public Shared Sub Reverse(ByVal array As Array, ByVal index As Integer,
21	ByVal length As Integer)
22	[JScript] public static function Reverse(array : Array, index : int, length : int);
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24	Description
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Reverses the sequence of the elements in a section of the one-dimensional **System.Array**.

After a call to this method, the element at myArray[i], where i is any index in the array, moves to myArray[j], where j equals (myArray.Length + myArray.GetLowerBound(0)) - (i - myArray.GetLowerBound(0)) - 1. The one-dimensional **System.Array** to reverse. The starting index of the section to reverse. The number of elements in the section to reverse.

SetValue

[C#] public void SetValue(object value, int index);

[C++] public: void SetValue(Object* value, int index);

[VB] Public Sub SetValue(ByVal value As Object, ByVal index As Integer)

[JScript] public function SetValue(value : Object, index : int); Sets the specified

System.Array elements to the specified value.

Description

Sets a value to the element at the specified position in a one-dimensional System.Array.

The System.Array.GetLowerBound(System.Int32) and System.Array.GetUpperBound(System.Int32) methods can determine whether the value of *index* is out of bounds. The new value for the specified element. The position of the System.Array element to set.

SetValue

[C#] public void SetValue(object value, int[] indices);

1	[C++] public: void SetValue(Object* value, int indicesgc[]);
2	[VB] Public Sub SetValue(ByVal value As Object, ByVal indices() As Integer)
3	[JScript] public function SetValue(value : Object, indices : int[]);
4	
5	Description
6	Sets a value to the element at the specified position in a multidimensional
7	System.Array.
8	The number of elements in indices must equal the number of dimensions in
9	the System.Array. All elements in the indices array must collectively specify the
10	position of the desired element in the multidimensional System.Array. The new
11	value for the specified element. A one-dimensional array of indexes that specifies
12	the position of the element to set.
13	SetValue
14	
15	[C#] public void SetValue(object value, int index1, int index2);
16	[C++] public: void SetValue(Object* value, int index1, int index2);
17	[VB] Public Sub SetValue(ByVal value As Object, ByVal index1 As Integer,
18	ByVal index2 As Integer)
19	[JScript] public function SetValue(value : Object, index1 : int, index2 : int);
20	
21	Description
22	Sets a value to the element at the specified position in a two-dimensional
23	System.Array.
24	The System.Array.GetLowerBound(System.Int32) and
25	System Array CetUpperRound(System Int32) methods can determine whether

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any of the indexes is out of bounds. The new value for the specified element. The first-dimension index of the **System.Array** element to set. The second-dimension index of the **System.Array** element to set.

SetValue

[C#] public void SetValue(object value, int index1, int index2, int index3);

[C++] public: void SetValue(Object* value, int index1, int index2, int index3);

[VB] Public Sub SetValue(ByVal value As Object, ByVal index1 As Integer,

ByVal index2 As Integer, ByVal index3 As Integer)

[JScript] public function SetValue(value : Object, index1 : int, index2 : int, index3 : int);

Description

Sets a value to the element at the specified position in a three-dimensional **System.Array**.

The System.Array.GetLowerBound(System.Int32) and System.Array.GetUpperBound(System.Int32) methods can determine whether any of the indexes is out of bounds. The new value for the specified element. The first-dimension index of the System.Array element to set. The second-dimension index of the System.Array element to set. The third-dimension index of the System.Array element to set.

Sort

[C#] public static void Sort(Array array);

[C++] public: static void Sort(Array* array);

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1	[VB] Public Shared Sub Sort(ByVal array As Array)
2	[JScript] public static function Sort(array : Array); Sorts the elements in one-
3	dimensional System.Array objects.
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5	Description
6	Sorts the elements in an entire one-dimensional System.Array using the
7	System.IComparable interface implemented by each element of the
8	System.Array.
9	Each element of array must implement the System.IComparable interface
10	to be capable of comparisons with every other element in array. The one-
11	dimensional System.Array to sort.
12	Sort
13	
14	[C#] public static void Sort(Array keys, Array items);
15	[C++] public: static void Sort(Array* keys, Array* items);

[VB] Public Shared Sub Sort(ByVal keys As Array, ByVal items As Array)

[JScript] public static function Sort(keys : Array, items : Array);

Description

Sorts a pair of one-dimensional System. Array objects (one contains the keys and the other contains the corresponding items) based on the keys in the first System.Array using the System.IComparable interface implemented by each key.

Each key in the keysSystem.Array has a corresponding item in the itemsSystem.Array. When a key is repositioned during the sorting, the

corresponding item in the items System. Array is similarly repositioned. Therefore,		
the itemsSystem.Array is sorted according to the arrangement of the		
corresponding keys in the keysSystem.Array. The one-dimensional		
System.Array that contains the keys to sort. The one-dimensional System.Array		
that contains the items that correspond to each of the keys in the		
keysSystem.Array.		
Sort		
[C#] public static void Sort(Array array, IComparer comparer);		
[C++] public: static void Sort(Array* array, IComparer* comparer);		
[VB] Public Shared Sub Sort(ByVal array As Array, ByVal comparer As		
IComparer)		
[JScript] public static function Sort(array: Array, comparer: IComparer);		
Description		
Sorts the elements in a one-dimensional System.Array using the specified		
System.Collections.IComparer interface.		
If comparer is null, each element of array must implement the		

If comparer is null, each element of array must implement the System.IComparable interface to be capable of comparisons with every other element in array. The one-dimensional System.Array to sort. The System.Collections.IComparer implementation to use when comparing elements.

Sort

[C#] public static void Sort(Array keys, Array items, IComparer comparer);

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[C++] public: static void Sort(Array* keys, Array* items, IComparer* comparer); [VB] Public Shared Sub Sort(ByVal keys As Array, ByVal items As Array, ByVal comparer As IComparer) [JScript] public static function Sort(keys: Array, items: Array, comparer: IComparer); Description Sorts a pair of one-dimensional System. Array objects (one contains the keys and the other contains the corresponding items) based on the keys in the first System.Array using the specified System.Collections.IComparer interface. Each key in the keysSystem.Array has a corresponding item in the itemsSystem.Array. When a key is repositioned during the sorting, the corresponding item in the itemsSystem.Array is similarly repositioned. Therefore, the itemsSystem.Array is sorted according to the arrangement of the corresponding keys in the keysSystem.Array. The one-dimensional System.Array that contains the keys to sort. The one-dimensional System.Array that contains the items that correspond to each of the keys in the

keysSystem.Array. The System.Collections.IComparer implementation to use when comparing elements.

Sort

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[C#] public static void Sort(Array array, int index, int length);

[C++] public: static void Sort(Array* array, int index, int length);

[VB] Public Shared Sub Sort(ByVal array As Array, ByVal index As Integer,

ByVal length As Integer)

[JScript] public static function Sort(array: Array, index: int, length: int);

Description

Sorts the elements in a section of a one-dimensional **System.Array** using the **System.IComparable** interface implemented by each element of the **System.Array**.

Each element within the specified section of *array* must implement the **System.IComparable** interface to be capable of comparisons with every other element in *array*. The one-dimensional **System.Array** to sort. The starting index of the range to sort. The number of elements in the range to sort.

Sort

[C#] public static void Sort(Array keys, Array items, int index, int length);
[C++] public: static void Sort(Array* keys, Array* items, int index, int length);
[VB] Public Shared Sub Sort(ByVal keys As Array, ByVal items As Array, ByVal index As Integer, ByVal length As Integer)
[JScript] public static function Sort(keys: Array, items: Array, index: int, length: int);

Description

Sorts a section of a pair of one-dimensional **System.Array** objects (one contains the keys and the other contains the corresponding items) based on the keys in the first **System.Array** using the **System.IComparable** interface implemented by each key.

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Each key in the keysSystem.Array has a corresponding item in the itemsSystem.Array. When a key is repositioned during the sorting, the corresponding item in the itemsSystem.Array is similarly repositioned. Therefore, the itemsSystem.Array is sorted according to the arrangement of the corresponding keys in the keysSystem.Array. The one-dimensional System.Array that contains the keys to sort. The one-dimensional System.Array that contains the items that correspond to each of the keys in the keysSystem.Array. The starting index of the range to sort. The number of elements in the range to sort.

Sort

[C#] public static void Sort(Array array, int index, int length, IComparer comparer);

[C++] public: static void Sort(Array* array, int index, int length, IComparer* comparer);

[VB] Public Shared Sub Sort(ByVal array As Array, ByVal index As Integer, ByVal length As Integer, ByVal comparer As IComparer)

[JScript] public static function Sort(array: Array, index: int, length: int, comparer: IComparer);

Description

Sorts the elements in a section of a one-dimensional **System.Array** using the specified **System.Collections.IComparer** interface.

If comparer is **null**, each element within the specified section of array must implement the **System.IComparable** interface to be capable of comparisons

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24 25 with every other element in *array*. The one-dimensional **System.Array** to sort. The starting index of the range to sort. The number of elements in the range to sort. The **System.Collections.IComparer** implementation to use when comparing elements.

Sort

[C#] public static void Sort(Array keys, Array items, int index, int length, IComparer comparer);

[C++] public: static void Sort(Array* keys, Array* items, int index, int length, IComparer* comparer);

[VB] Public Shared Sub Sort(ByVal keys As Array, ByVal items As Array, ByVal index As Integer, ByVal length As Integer, ByVal comparer As IComparer)

[JScript] public static function Sort(keys: Array, items: Array, index: int, length: int, comparer: IComparer);

Description

Sorts a section of a pair of one-dimensional **System.Array** objects (one contains the keys and the other contains the corresponding items) based on the keys in the first **System.Array** using the specified

System.Collections.IComparer interface.

Each key in the keysSystem.Array has a corresponding item in the itemsSystem.Array. When a key is repositioned during the sorting, the corresponding item in the itemsSystem.Array is similarly repositioned. Therefore, the itemsSystem.Array is sorted according to the arrangement of the corresponding keys in the keysSystem.Array. The one-dimensional

1	System.Array that contains the keys to sort. The one-dimensional System.Array
2	that contains the items that correspond to each of the keys in the
3	keysSystem.Array. The starting index of the range to sort. The number of
4	elements in the range to sort. The System.Collections.IComparer
5	implementation to use when comparing elements.
6	IList.Add
7	
8	[C#] int IList.Add(object value);
9	[C++] int IList::Add(Object* value);
10	[VB] Function Add(ByVal value As Object) As Integer Implements IList.Add
11	[JScript] function IList.Add(value : Object) : int;
12	IList.Clear
13	
14	[C#] void IList.Clear();
15	[C++] void IList::Clear();
16	[VB] Sub Clear() Implements IList.Clear
17	[JScript] function IList.Clear();
18	IList.Contains
19	
20	[C#] bool IList.Contains(object value);
21	[C++] bool IList::Contains(Object* value);
22	[VB] Function Contains(ByVal value As Object) As Boolean Implements
23	IList.Contains
24	[JScript] function IList.Contains(value : Object) : Boolean;
25	IList.IndexOf

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[C#] int IList.IndexOf(object value);
    [C++] int IList::IndexOf(Object* value);
    [VB] Function IndexOf(ByVal value As Object) As Integer Implements
    IList.IndexOf
    [JScript] function IList.IndexOf(value : Object) : int;
           IList.Insert
7
8
    [C#] void IList.Insert(int index, object value);
9
    [C++] void IList::Insert(int index, Object* value);
10
    [VB] Sub Insert(ByVal index As Integer, ByVal value As Object) Implements
11
    IList.Insert
12
    [JScript] function IList.Insert(index : int, value : Object);
13
           IList.Remove
14
15
    [C#] void IList.Remove(object value);
16
    [C++] void IList::Remove(Object* value);
17
    [VB] Sub Remove(ByVal value As Object) Implements IList.Remove
18
    [JScript] function IList.Remove(value : Object);
19
           IList.RemoveAt
20
21
    [C#] void IList.RemoveAt(int index);
22
    [C++] void IList::RemoveAt(int index);
23
    [VB] Sub RemoveAt(ByVal index As Integer) Implements IList.RemoveAt
    [JScript] function IList.RemoveAt(index : int);
```

1	ArrayTypeMismatchException class (System)
2	ToString
3	
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5	Description
6	The exception that is thrown when an attempt is made to store an element
7	of the wrong type within an array.
8	System.ArrayTypeMismatchException uses the HRESULT
9	COR_E_ARRAYTYPEMISMATCH, which has the value 0x80131503.
10	ArrayTypeMismatchException
11	Example Syntax:
12	ToString
13	
14	[C#] public ArrayTypeMismatchException();
15	[C++] public: ArrayTypeMismatchException();
16	[VB] Public Sub New()
17	[JScript] public function ArrayTypeMismatchException(); Initializes a new
18	instance of the System.ArrayTypeMismatchException class.
19	
20	Description
21	Initializes a new instance of the System.ArrayTypeMismatchException
22	class with default properties.
23	The following table shows the initial property values for an instance of
24	System.ArrayTypeMismatchException .
25	ArrayTypeMismatchException

1	Example Syntax:
2	ToString
3	
4	[C#] public ArrayTypeMismatchException(string message);
5	[C++] public: ArrayTypeMismatchException(String* message);
6	[VB] Public Sub New(ByVal message As String)
7	[JScript] public function ArrayTypeMismatchException(message : String);
8	
9	Description
10	Initializes a new instance of the System.ArrayTypeMismatchException
11	class with a specified error message.
12	The following table shows the initial property values for an instance of
13	System.ArrayTypeMismatchException . The error message that explains the
14	reason for the exception.
15	ArrayTypeMismatchException
16	Example Syntax:
17	ToString
18	
19	[C#] protected ArrayTypeMismatchException(SerializationInfo info,
20	StreamingContext context);
21	[C++] protected: ArrayTypeMismatchException(SerializationInfo* info,
22	StreamingContext context);
23	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
24	StreamingContext)
25	[JScript] protected function ArrayTypeMismatchException(info:

SerializationInfo, context: StreamingContext); 2 Description Initializes a new instance of the System.ArrayTypeMismatchException class with serialized data. This constructor is called during deserialization to reconstitute the 6 exception object transmitted over a stream. For more information, see . The object 7 that holds the serialized object data. The contextual information about the source 8 or destination. 9 ArrayTypeMismatchException 10 Example Syntax: 11 **ToString** 12 13 [C#] public ArrayTypeMismatchException(string message, Exception 14 innerException); 15 [C++] public: ArrayTypeMismatchException(String* message, Exception* 16 innerException); 17 [VB] Public Sub New(ByVal message As String, ByVal innerException As 18 Exception) 19 [JScript] public function ArrayTypeMismatchException(message: String, 20 innerException: Exception); 21 22 Description 23 24

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Initializes a new instance of the **System.ArrayTypeMismatchException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

AssemblyLoadEventArgs class (System)

ToString

Description

Provides data for the System.AppDomain.AssemblyLoad event.

AssemblyLoadEventArgs

1	Example Syntax:
2	ToString
3	
4	[C#] public AssemblyLoadEventArgs(Assembly loadedAssembly);
5	[C++] public: AssemblyLoadEventArgs(Assembly* loadedAssembly);
6	[VB] Public Sub New(ByVal loadedAssembly As Assembly)
7	[JScript] public function AssemblyLoadEventArgs(loadedAssembly : Assembly);
8	
9	Description
10	Initializes a new instance of the
11	System.AssemblyLoadEventArgs.AssemblyLoadEventArgs class, using the
12	specified System.Reflection.Assembly object. An instance that represents the
13	currently loaded assembly.
14	LoadedAssembly
15	ToString
16	
17	[C#] public Assembly LoadedAssembly {get;}
18	[C++] public:property Assembly* get_LoadedAssembly();
19	[VB] Public ReadOnly Property LoadedAssembly As Assembly
20	[JScript] public function get LoadedAssembly(): Assembly;
21	
22	Description
23	Gets an System.Reflection.Assembly object that represents the currently
24	loaded assembly.
25	AssemblyLoadEventHandler delegate (System)

ToString

Description

data.

Represents the method that will handle the

System.AppDomain.AssemblyLoad event of an System.AppDomain. The

source of the event. An System.AssemblyLoadEventArgs that contains the event

AsyncCallback delegate (System)

ToString

Description

References the callback method to be called when the asynchronous operation is completed. The result of the asynchronous operation.

System.AsyncCallback provides a way for client applications to complete an asynchronous operation. This callback delegate is supplied to the client when the asynchronous operation is initiated. The event handler referenced by System.AsyncCallback contains program logic to finish processing the asynchronous task for the client.

Attribute class (System)

ToString

Description

1	Base class for custom attributes.
2	The Attribute class contains convenience methods to access and test
3	custom attributes. While any user-defined type can be used as an attribute, it is
4	expected that most attributes will be instances of types derived from Attribute.
5	Attribute
6	Example Syntax:
7	ToString
8	
9	[C#] protected Attribute();
10	[C++] protected: Attribute();
11	[VB] Protected Sub New()
12	[JScript] protected function Attribute();
13	
14	Description
15	Initializes a new instance of the Attribute class.
16	TypeId
17	ToString
18	
19	[C#] public virtual object TypeId {get;}
20	[C++] public:property virtual Object* get_TypeId();
21	[VB] Overridable Public ReadOnly Property TypeId As Object
22	[JScript] public function get TypeId() : Object;
23	
24	Description
25	

1	When implemented in a derived class, gets a unique identifier for this
2	Attribute .
3	As implemented, this identifier is merely the System.Type of the attribute.
4	However, it is intended that the unique identifier be used to identify two attributes
5	of the same type.
6	Equals
7	
8	[C#] public override bool Equals(object obj);
9	[C++] public: bool Equals(Object* obj);
10	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
11	[JScript] public override function Equals(obj : Object) : Boolean;
12	
13	Description
14	Returns a value indicating whether this instance is equal to a specified
15	object.
16	Return Value: true if obj equals the type and value of this instance; otherwise,
17	false. An System.Object to compare with this instance or null.
18	GetCustomAttribute
19	
20	[C#] public static Attribute GetCustomAttribute(Assembly element, Type
21	attributeType);
22	[C++] public: static Attribute* GetCustomAttribute(Assembly* element, Type*
23	attributeType);
24	[VB] Public Shared Function GetCustomAttribute(ByVal element As Assembly,
25	ByVal attributeType As Type) As Attribute

[JScript] public static function GetCustomAttribute(element : Assembly, attributeType : Type) : Attribute;

Description

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Retrieves a custom attribute of a specified type applied to a specified assembly and its ancestors.

Return Value: null, if no custom attribute of type attributeType is applied to element. An object derived from class System.Reflection.Assembly that describes a reusable, versionable, collection of modules. The System.Type object to which the custom attributes are applied.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(MemberInfo element, Type attributeType);

[C++] public: static Attribute* GetCustomAttribute(MemberInfo* element, Type* attributeType);

[VB] Public Shared Function GetCustomAttribute(ByVal element As MemberInfo, ByVal attributeType As Type) As Attribute

[JScript] public static function GetCustomAttribute(element : MemberInfo, attributeType : Type) : Attribute;

Description

Retrieves a custom attribute of a specified type applied to a specified member of a class and its ancestors.

Return Value: null, if no custom attribute of type attribute Type is applied to

element . An object derived from class System.Reflection.MemberInfo that describes a constructor, event, field, method, or property member of a class. The System.Type object to which the custom attributes are applied.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(Module element, Type attributeType);

[C++] public: static Attribute* GetCustomAttribute(Module* element, Type* attributeType);

[VB] Public Shared Function GetCustomAttribute(ByVal element As Module, ByVal attributeType As Type) As Attribute

[JScript] public static function GetCustomAttribute(element : Module, attributeType : Type) : Attribute;

Description

Retrieves a custom attribute of a specified type applied to a specified module and its ancestors.

Return Value: null, if no custom attribute of type attributeType is applied to element. An object derived from class System.Reflection.Module that describes a portable executable file. The System.Type object to which the custom attributes are applied.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(ParameterInfo element, Type attributeType);

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[C++] public: static Attribute* GetCustomAttribute(ParameterInfo* element, Type* attributeType); [VB] Public Shared Function GetCustomAttribute(ByVal element As ParameterInfo, ByVal attributeType As Type) As Attribute [JScript] public static function GetCustomAttribute(element : ParameterInfo, attributeType: Type): Attribute; Description Retrieves a custom attribute of a specified type applied to a specified parameter of a member of a class and its ancestors. Return Value: null, if no custom attribute of type attribute Type is applied to element . An object derived from class System.Reflection.ParameterInfo that 12 describes a parameter of a member of a class. The System. Type object to which 13 the custom attributes are applied. 14 **GetCustomAttribute** 15 16 [C#] public static Attribute GetCustomAttribute(Assembly element, Type 17 attributeType, bool inherit); 18

[C++] public: static Attribute* GetCustomAttribute(Assembly* element, Type* attributeType, bool inherit);

[VB] Public Shared Function GetCustomAttribute(ByVal element As Assembly, ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute [JScript] public static function GetCustomAttribute(element : Assembly, attributeType: Type, inherit: Boolean): Attribute;

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Description

Retrieves a custom attribute of a specified type applied to a specified assembly and optionally its ancestors.

Return Value: null, if no custom attribute of type attribute Type is applied to element. An object derived from class System.Reflection.Assembly that describes a reusable, versionable, collection of modules. The System.Type object to which the custom attributes are applied. If true, specifies to also search the ancestors of element for custom attributes.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(MemberInfo element, Type attributeType, bool inherit);

[C++] public: static Attribute* GetCustomAttribute(MemberInfo* element, Type* attributeType, bool inherit);

[VB] Public Shared Function GetCustomAttribute(ByVal element As MemberInfo, ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute

[JScript] public static function GetCustomAttribute(element : MemberInfo, attributeType : Type, inherit : Boolean) : Attribute; Retrieves a custom attribute of a specified type applied to a specified member of a class.

Description

Retrieves a custom attribute of a specified type applied to a specified member of a class and optionally its ancestors.

Return Value: null, if no custom attribute of type attribute Type is applied to element. An object derived from class System.Reflection.MemberInfo that describes a constructor, event, field, method, or property member of a class. The System.Type object to which the custom attributes are applied. If true, specifies to also search the ancestors of element for custom attributes.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(Module element, Type attributeType, bool inherit);

[C++] public: static Attribute* GetCustomAttribute(Module* element, Type* attributeType, bool inherit);

[VB] Public Shared Function GetCustomAttribute(ByVal element As Module, ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute [JScript] public static function GetCustomAttribute(element : Module, attributeType : Type, inherit : Boolean) : Attribute;

Description

Retrieves a custom attribute of a specified type applied to a specified module and optionally its ancestors.

Return Value: null, if no custom attribute of type attributeType is applied to element. An object derived from class System.Reflection.Module that describes a portable executable file. The System.Type object to which the custom attributes are applied. If true, specifies to also search the ancestors of element for custom attributes.

GetCustomAttribute

[C#] public static Attribute GetCustomAttribute(ParameterInfo element, Type attributeType, bool inherit);

[C++] public: static Attribute* GetCustomAttribute(ParameterInfo* element, Type* attributeType, bool inherit);

[VB] Public Shared Function GetCustomAttribute(ByVal element As ParameterInfo, ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute

[JScript] public static function GetCustomAttribute(element : ParameterInfo, attributeType : Type, inherit : Boolean) : Attribute;

Description

Retrieves a custom attribute of a specified type applied to a specified parameter of a member of a class and optionally its ancestors.

Return Value: null, if no custom attribute of type attributeType is applied to element. An object derived from class System.Reflection.ParameterInfo that describes a parameter of a member of a class. The System.Type object to which the custom attributes are applied. If true, specifies to also search the ancestors of element for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Assembly element);
 [C++] public: static Attribute* GetCustomAttributes(Assembly* element) [];
 [VB] Public Shared Function GetCustomAttributes(ByVal element As Assembly)
 As Attribute()

[JScript] public static function GetCustomAttributes(element : Assembly) : Attribute[];

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Retrieves an array of the custom attributes of a specified type applied to a specified assembly and its ancestors.

Return Value: An System.Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element*. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(MemberInfo element); [C++] public: static Attribute* GetCustomAttributes(MemberInfo* element) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As

MemberInfo) As Attribute()

[JScript] public static function GetCustomAttributes(element : MemberInfo) :

Attribute[];

Description

Retrieves an array of the custom attributes applied to a specified member of a class and its ancestors.

Return Value: An System.Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

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Return value contains the custom attributes for ancestors of element . An object derived from class System.Reflection.MemberInfo that describes a constructor, event, field, method, or property member of a class.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Module element); [C++] public: static Attribute* GetCustomAttributes(Module* element) []; [VB] Public Shared Function GetCustomAttributes(ByVal element As Module) As Attribute() [JScript] public static function GetCustomAttributes(element : Module) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified module and its ancestors.

Return Value: An System. Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of element . An object derived from class System.Reflection.Module that describes a portable executable file.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(ParameterInfo element); [C++] public: static Attribute* GetCustomAttributes(ParameterInfo* element) []; [VB] Public Shared Function GetCustomAttributes(ByVal element As

ParameterInfo) As Attribute() [JScript] public static function GetCustomAttributes(element : ParameterInfo) : Attribute[]; 3 4 Description 5 Retrieves an array of the custom attributes of a specified type applied to a 6 specified parameter of a member of a class and its ancestors. 7 Return Value: An System. Attribute array containing the custom attributes applied 8 to element. -or- An empty array if no such custom attributes exist. 9 Return value contains the custom attributes for ancestors of element . An 10 object derived from class System.Reflection.ParameterInfo that describes a 11 parameter of a member of a class. 12 **GetCustomAttributes** 13 14 [C#] public static Attribute[] GetCustomAttributes(Assembly element, bool 15 inherit); 16 [C++] public: static Attribute* GetCustomAttributes(Assembly* element, bool 17 inherit) []; 18 [VB] Public Shared Function GetCustomAttributes(ByVal element As Assembly, 19 ByVal inherit As Boolean) As Attribute() 20 [JScript] public static function GetCustomAttributes(element : Assembly, inherit : 21 Boolean): Attribute[]; 22 23 Description 24 25

Retrieves an array of the custom attributes of a specified type applied to a specified assembly and optionally its ancestors.

Return Value: An System.Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Assembly element, Type attributeType);

[C++] public: static Attribute* GetCustomAttributes(Assembly* element, Type* attributeType) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As Assembly, ByVal attributeType As Type) As Attribute()

[JScript] public static function GetCustomAttributes(element : Assembly, attributeType : Type) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified assembly and its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element*. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules. The **System.Type** object to which the custom attributes are applied.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(MemberInfo element, bool inherit);

[C++] public: static Attribute* GetCustomAttributes(MemberInfo* element, bool inherit) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As MemberInfo, ByVal inherit As Boolean) As Attribute()

[JScript] public static function GetCustomAttributes(element : MemberInfo, inherit : Boolean) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified member of a class and its ancestors.

Return Value: An System.Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.MemberInfo** that describes a constructor, event, field, method, or property member of a class. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

1	
2	[C#] public static Attribute[] GetCustomAttributes(MemberInfo element, Type
3	type);
4	[C++] public: static Attribute* GetCustomAttributes(MemberInfo* element,
5	Type* type) [];
6	[VB] Public Shared Function GetCustomAttributes(ByVal element As
7	MemberInfo, ByVal type As Type) As Attribute()
8	[JScript] public static function GetCustomAttributes(element : MemberInfo, type :
9	Type): Attribute[]; Retrieves an array of the custom attributes of a specified type
10	applied to a specified member of a class.
11	
12	Description

Retrieves an array of the custom attributes of a specified type applied to a specified member of a class and its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type type applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element*. An object derived from class **System.Reflection.MemberInfo** that describes a constructor, event, field, method, or property member of a class. The **System.Type** object to which the custom attributes are applied.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Module element, bool inherit); [C++] public: static Attribute* GetCustomAttributes(Module* element, bool inherit) [];

1	[VB] Public Shared Function GetCustomAttributes(ByVal element As Module,
2	ByVal inherit As Boolean) As Attribute()
3	[JScript] public static function GetCustomAttributes(element : Module, inherit :
4	Boolean): Attribute[];
5	
6	Description
7	Retrieves an array of the custom attributes of a specified type applied to a
8	specified module and optionally its ancestors.
9	Return Value: An System.Attribute array containing the custom attributes applied
10	to elementor- An empty array if no such custom attributes exist.
11	Return value contains the custom attributes for ancestors of element if
12	inherit is true. An object derived from class System.Reflection.Module that
13	describes a portable executable file. If true, specifies to also search the ancestors
14	of element for custom attributes.
15	GetCustomAttributes
16	
17	[C#] public static Attribute[] GetCustomAttributes(Module element, Type
18	attributeType);
19	[C++] public: static Attribute* GetCustomAttributes(Module* element, Type*
20	attributeType) [];
21	[VB] Public Shared Function GetCustomAttributes(ByVal element As Module,
22	ByVal attributeType As Type) As Attribute()
23	[JScript] public static function GetCustomAttributes(element : Module,
24	attributeType : Type) : Attribute[];

Description

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Retrieves an array of the custom attributes of a specified type applied to a specified module and its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element*. An object derived from class **System.Reflection.Module** that describes a portable executable file. The **System.Type** object to which the custom attributes are applied.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(ParameterInfo element, bool inherit);

[C++] public: static Attribute* GetCustomAttributes(ParameterInfo* element, bool inherit) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As

ParameterInfo, ByVal inherit As Boolean) As Attribute()

[JScript] public static function GetCustomAttributes(element : ParameterInfo,

inherit : Boolean) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified parameter of a member of a class and optionally its ancestors.

Return Value: An System.Attribute array containing the custom attributes applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.ParameterInfo** that describes a parameter of a member of a class. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(ParameterInfo element, Type attributeType);

[C++] public: static Attribute* GetCustomAttributes(ParameterInfo* element, Type* attributeType) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As ParameterInfo, ByVal attributeType As Type) As Attribute()

[JScript] public static function GetCustomAttributes(element : ParameterInfo, attributeType : Type) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified parameter of a member of a class and its ancestors.

Return Value: An **System.Attribute** array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element*. An object derived from class **System.Reflection.ParameterInfo** that describes a

parameter of a member of a class. The **System.Type** object to which the custom attributes are applied.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Assembly element, Type attributeType, bool inherit);

[C++] public: static Attribute* GetCustomAttributes(Assembly* element, Type* attributeType, bool inherit) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As Assembly, ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute()

[JScript] public static function GetCustomAttributes(element : Assembly, attributeType : Type, inherit : Boolean) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified assembly and optionally its ancestors.

Return Value: An **System.Attribute** array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(MemberInfo element, Type type, bool inherit);

[C++] public: static Attribute* GetCustomAttributes(MemberInfo* element, Type* type, bool inherit) [];

[VB] Public Shared Function GetCustomAttributes(ByVal element As

MemberInfo, ByVal type As Type, ByVal inherit As Boolean) As Attribute()

[JScript] public static function GetCustomAttributes(element : MemberInfo, type :

Type, inherit: Boolean): Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified member of a class and optionally its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type type applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.MemberInfo** that describes a constructor, event, field, method, or property member of a class. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(Module element, Type attributeType, bool inherit);

[C++] public: static Attribute* GetCustomAttributes(Module* element, Type*

attributeType, bool inherit) [];
[VB] Public Shared Function GetCustomAttributes(ByVal element As Module,
ByVal attributeType As Type, ByVal inherit As Boolean) As Attribute()

[JScript] public static function GetCustomAttributes(element : Module,
attributeType : Type, inherit : Boolean) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified module and optionally its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.Module** that describes a portable executable file. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetCustomAttributes

[C#] public static Attribute[] GetCustomAttributes(ParameterInfo element, Type attributeType, bool inherit);
[C++] public: static Attribute* GetCustomAttributes(ParameterInfo* element, Type* attributeType, bool inherit) [];
[VB] Public Shared Function GetCustomAttributes(ByVal element As

ParameterInfo, ByVal attributeType As Type, ByVal inherit As Boolean) As

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1 Attribute()

[JScript] public static function GetCustomAttributes(element : ParameterInfo,

attributeType : Type, inherit : Boolean) : Attribute[];

Description

Retrieves an array of the custom attributes of a specified type applied to a specified parameter of a member of a class and optionally its ancestors.

Return Value: An System.Attribute array containing the custom attributes of type attributeType applied to element. -or- An empty array if no such custom attributes exist.

Return value contains the custom attributes for ancestors of *element* if *inherit* is **true**. An object derived from class **System.Reflection.ParameterInfo** that describes a parameter of a member of a class. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode(): int;

Description

Returns the hash code for this instance.

Return Value: A 32-bit signed integer hash code.

IsDefaultAttribute

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[C#] public virtual bool IsDefaultAttribute();

[C++] public: virtual bool IsDefaultAttribute();

[VB] Overridable Public Function IsDefaultAttribute() As Boolean

[JScript] public function IsDefaultAttribute(): Boolean;

Description

When overridden in a derived class, returns an indication whether the value of this instance is the default value for the derived class.

Return Value: true if this instance is the default attribute for the class; otherwise, false.

The default implementation of this class returns **false**, and must be implemented in the derived class to be useful to that class.

IsDefined

[C#] public static bool IsDefined(Assembly element, Type attributeType);

[C++] public: static bool IsDefined(Assembly* element, Type* attributeType);

[VB] Public Shared Function IsDefined(ByVal element As Assembly, ByVal attributeType As Type) As Boolean

[JScript] public static function IsDefined(element : Assembly, attributeType :

Type): Boolean;

Description

Determines whether any custom attributes of a specified type are applied to a specified assembly.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

The ancestors of *element* are not searched for custom attributes. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules. The **System.Type** object to which the custom attributes are applied.

IsDefined

[C#] public static bool IsDefined(MemberInfo element, Type attributeType);
[C++] public: static bool IsDefined(MemberInfo* element, Type* attributeType);
[VB] Public Shared Function IsDefined(ByVal element As MemberInfo, ByVal attributeType As Type) As Boolean
[JScript] public static function IsDefined(element : MemberInfo, attributeType :

Type): Boolean; Determines whether any custom attributes of a specified type are applied to a specified member of a class.

Description

Determines whether any custom attributes of a specified type are applied to a specified member of a class and its ancestors.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

The ancestors of *element* are searched for custom attributes if *element* is a method or a type. An object derived from class **System.Reflection.MemberInfo**

IsDefined : Boolean; Description a specified module. ; otherwise, false.

that describes a constructor, event, field, method, type, or property member of a class. The **System.Type** object to which the custom attributes are applied.

[C#] public static bool IsDefined(Module element, Type attributeType);
[C++] public: static bool IsDefined(Module* element, Type* attributeType);
[VB] Public Shared Function IsDefined(ByVal element As Module, ByVal attributeType As Type) As Boolean
[JScript] public static function IsDefined(element : Module, attributeType : Type)

Determines whether any custom attributes of a specified type are applied to a specified module.

Return Value: **true** if a custom attribute of type attributeType is applied to element ; otherwise, **false**.

The ancestors of *element* are not searched for custom attributes. An object derived from class **System.Reflection.Module** that describes a portable executable file. The **System.Type** object to which the custom attributes are applied.

IsDefined

[C#] public static bool IsDefined(ParameterInfo element, Type attributeType); [C++] public: static bool IsDefined(ParameterInfo* element, Type* attributeType);

24

25

Type, inherit: Boolean): Boolean;

[VB] Public Shared Function IsDefined(ByVal element As ParameterInfo, ByVal attributeType As Type) As Boolean 2 [JScript] public static function IsDefined(element : ParameterInfo, attributeType : 3 Type): Boolean; 4 5 Description 6 Determines whether any custom attributes of a specified type are applied to 7 a specified parameter of a member of a class and its ancestors. 8 Return Value: true if a custom attribute of type attributeType is applied to element 9 ; otherwise, false. 10 The ancestors of element are searched for custom attributes. An object 11 derived from class System.Reflection.ParameterInfo that describes a parameter 12 of a member of a class. The System. Type object to which the custom attributes 13 are applied. 14 **IsDefined** 15 16 [C#] public static bool IsDefined(Assembly element, Type attributeType, bool 17 inherit); 18 [C++] public: static bool IsDefined(Assembly* element, Type* attributeType, 19 bool inherit); 20 [VB] Public Shared Function IsDefined(ByVal element As Assembly, ByVal 21 attributeType As Type, ByVal inherit As Boolean) As Boolean 22 [JScript] public static function IsDefined(element : Assembly, attributeType :

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Description

Determines whether any custom attributes of a specified type are applied to a specified assembly.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

This method ignores the value of parameter *inherit*. The ancestors of *element* are not searched for custom attributes. An object derived from class **System.Reflection.Assembly** that describes a reusable, versionable, collection of modules. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

IsDefined

[C#] public static bool IsDefined(MemberInfo element, Type attributeType, bool inherit);

[C++] public: static bool IsDefined(MemberInfo* element, Type* attributeType, bool inherit);

[VB] Public Shared Function IsDefined(ByVal element As MemberInfo, ByVal attributeType As Type, ByVal inherit As Boolean) As Boolean

[JScript] public static function IsDefined(element : MemberInfo, attributeType :

Type, inherit: Boolean): Boolean;

Description

Determines whether any custom attributes of a specified type are applied to a specified member of a class and optionally its ancestors.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

The ancestors of *element* are searched for custom attributes if *inherit* is **true** and *element* is a method or a type. An object derived from class

System.Reflection.MemberInfo that describes a constructor, event, field, method, type, or property member of a class. The System.Type object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

IsDefined

[C#] public static bool IsDefined(Module element, Type attributeType, bool inherit);

[C++] public: static bool IsDefined(Module* element, Type* attributeType, bool inherit);

[VB] Public Shared Function IsDefined(ByVal element As Module, ByVal attributeType As Type, ByVal inherit As Boolean) As Boolean

[JScript] public static function IsDefined(element : Module, attributeType : Type, inherit : Boolean) : Boolean;

Description

Determines whether any custom attributes of a specified type are applied to a specified module.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

This method ignores the value of parameter *inherit*. The ancestors of *element* are not searched for custom attributes. An object derived from class **System.Reflection.Module** that describes a portable executable file. The **System.Type** object to which the custom attributes are applied. If **true**, specifies to also search the ancestors of *element* for custom attributes.

IsDefined

[C#] public static bool IsDefined(ParameterInfo element, Type attributeType, bool inherit);

[C++] public: static bool IsDefined(ParameterInfo* element, Type* attributeType, bool inherit);

[VB] Public Shared Function IsDefined(ByVal element As ParameterInfo, ByVal attributeType As Type, ByVal inherit As Boolean) As Boolean

 $[JScript]\ public\ static\ function\ IsDefined (element: Parameter Info,\ attribute Type: line) and the property of the prop$

Type, inherit: Boolean): Boolean;

Description

Determines whether any custom attributes of a specified type are applied to a specified parameter of a member of a class and optionally its ancestors.

Return Value: true if a custom attribute of type attributeType is applied to element; otherwise, false.

The ancestors of *element* are searched for custom attributes if *inherit* is **true** and *element* is a method. An object derived from class

System.Reflection.ParameterInfo that describes a parameter of a member of a

class. The System. Type object to which the custom attributes are applied. If true, specifies to also search the ancestors of element for custom attributes. 2 Match 3 [C#] public virtual bool Match(object obj); [C++] public: virtual bool Match(Object* obj); [VB] Overridable Public Function Match(ByVal obj As Object) As Boolean [JScript] public function Match(obj : Object) : Boolean; 9 Description 10 When overridden in a derived class, returns a value indicating whether this 11 instance equals a specified object. 12 Return Value: true if this instance equals obj; otherwise, false. 13 This method determines if one Attribute equals another. Its default 14 implementation is the same as System. Attribute. Equals (System. Object), which 15 performs a value and reference comparison. Override this method to implement 16 support for attribute values, such as flags or bitfields, that consist of components 17 that are meaningful in themselves. An System. Object to compare with this 18 instance of Attribute. 19 AttributeTargets enumeration (System) 20 **ToString** 21 22

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Description

Specifies the elements to which it is valid to apply an attribute.

1	AttributeTargets enumeration values can be combined with a bitwise OR
2	operation to get the desired combination.
3	ToString
4	
5	[C#] public const AttributeTargets All;
6	[C++] public: const AttributeTargets All;
7	[VB] Public Const All As AttributeTargets
8	[JScript] public var All: AttributeTargets;
9	
10	Description
11	Attribute can be applied to any element.
12	ToString
13	
14	[C#] public const AttributeTargets Assembly;
15	[C++] public: const AttributeTargets Assembly;
16	[VB] Public Const Assembly As AttributeTargets
17	[JScript] public var Assembly : AttributeTargets;
18	
19	Description
20	Attribute can be applied to an assembly.
21	ToString
22	
23	[C#] public const AttributeTargets Class;
24	[C++] public: const AttributeTargets Class;
25	[VB] Public Const Class As AttributeTargets

1	[JScript] public var Class : AttributeTargets;
2	
3	Description
4	Attribute can be applied to a class.
5	ToString
6	
7	[C#] public const AttributeTargets Constructor;
8	[C++] public: const AttributeTargets Constructor;
9	[VB] Public Const Constructor As AttributeTargets
10	[JScript] public var Constructor : AttributeTargets;
11	
12	Description
13	Attribute can be applied to a constructor.
14	ToString
15	
16	[C#] public const AttributeTargets Delegate;
17	[C++] public: const AttributeTargets Delegate;
18	[VB] Public Const Delegate As AttributeTargets
19	[JScript] public var Delegate : AttributeTargets;
20	
21	Description
22	Attribute can be applied to a delegate.
23	ToString
24	
25	[C#] public const AttributeTargets Enum;

1	[C++] public: const AttributeTargets Enum;
2	[VB] Public Const Enum As AttributeTargets
3	[JScript] public var Enum : AttributeTargets;
4	
5	Description
6	Attribute can be applied to an enumeration.
7	ToString
8	
9	[C#] public const AttributeTargets Event;
10	[C++] public: const AttributeTargets Event;
11	[VB] Public Const Event As AttributeTargets
12	[JScript] public var Event : AttributeTargets;
13	
14	Description
15	Attribute can be applied to an event.
16	ToString
17	
18	[C#] public const AttributeTargets Field;
19	[C++] public: const AttributeTargets Field;
20	[VB] Public Const Field As AttributeTargets
21	[JScript] public var Field : AttributeTargets;
22	
23	Description
24	Attribute can be applied to a field.
25	ToString

1	
2	[C#] public const AttributeTargets Interface;
3	[C++] public: const AttributeTargets Interface;
4	[VB] Public Const Interface As AttributeTargets
5	[JScript] public var Interface : AttributeTargets;
6	
7	Description
8	Attribute can be applied to an interface.
9	ToString
10	
11	[C#] public const AttributeTargets Method;
12	[C++] public: const AttributeTargets Method;
13	[VB] Public Const Method As AttributeTargets
14	[JScript] public var Method : AttributeTargets;
15	
16	Description
17	Attribute can be applied to a method.
18	ToString
19	
20	[C#] public const AttributeTargets Module;
21	[C++] public: const AttributeTargets Module;
22	[VB] Public Const Module As AttributeTargets
23	[JScript] public var Module : AttributeTargets;
24	
25	Description

1	Attribute can be applied to a module.
2	ToString
3	
4	[C#] public const AttributeTargets Parameter;
5	[C++] public: const AttributeTargets Parameter;
6	[VB] Public Const Parameter As AttributeTargets
7	[JScript] public var Parameter : AttributeTargets;
8	
9	Description
10	Attribute can be applied to a parameter.
11	ToString
12	
13	[C#] public const AttributeTargets Property;
14	[C++] public: const AttributeTargets Property;
15	[VB] Public Const Property As AttributeTargets
16	[JScript] public var Property : AttributeTargets;
17	
18	Description
19	Attribute can be applied to a property.
20	ToString
21	
22	[C#] public const AttributeTargets ReturnValue;
23	[C++] public: const AttributeTargets ReturnValue;
24	[VB] Public Const ReturnValue As AttributeTargets
25	[IScript] public var ReturnValue : AttributeTargets:

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2	Description
3	Attribute can be applied to a Return value.
4	ToString
5	
6	[C#] public const AttributeTargets Struct;
7	[C++] public: const AttributeTargets Struct;
8	[VB] Public Const Struct As AttributeTargets
9	[JScript] public var Struct : AttributeTargets;
10	
11	Description
12	Attribute can be applied to a value type.
13	AttributeUsageAttribute class (System)
14	ToString
15	
16	
17	Description
18	Specifies the usage of another attribute class. This class cannot
19	When you are defining your own attribute class, you can contr

t be inherited.

ol the manner in which it is used by placing an System. Attribute Usage Attribute on your attribute class. The indicated attribute class must derive from System.Attribute, either directly or indirectly.

AttributeUsageAttribute

Example Syntax:

ToString

1	
2	[C#] public AttributeUsageAttribute(AttributeTargets validOn);
3	[C++] public: AttributeUsageAttribute(AttributeTargets validOn);
4	[VB] Public Sub New(ByVal validOn As AttributeTargets)
5	[JScript] public function AttributeUsageAttribute(validOn : AttributeTargets);
6	
7	Description
8	Initializes a new instance of the System. Attribute Usage Attribute class
9	with the specified list of System.AttributeTargets, the
10	System.AttributeUsageAttribute.AllowMultiple value, and the
11	System.AttributeUsageAttribute.Inherited value.
12	You can combine several System. Attribute Targets values using a bitwise
13	OR operation to get the desired combination of valid program elements. The set of
14	values combined using a bitwise OR operation to indicate which program
15	elements are valid.
16	AllowMultiple
17	ToString
18	
19	[C#] public bool AllowMultiple {get; set;}
20	[C++] public:property bool get_AllowMultiple();public:property void
21	set_AllowMultiple(bool);
22	[VB] Public Property AllowMultiple As Boolean
23	[JScript] public function get AllowMultiple(): Boolean;public function set
24	AllowMultiple(Boolean);
25	

Description

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Gets or sets a Boolean value indicating whether more than one instances of the indicated attribute can be specified for a single program element.

An attribute that can be specified more than once for a program element is called a multi-use attribute. An attribute that can be specified only once is called a single-use attribute.

Inherited

ToString

[C#] public bool Inherited {get; set;}

[C++] public: __property bool get_Inherited();public: __property void set Inherited(bool);

[VB] Public Property Inherited As Boolean

[JScript] public function get Inherited(): Boolean; public function set Inherited(Boolean);

Description

Gets or sets a Boolean value indicating whether the indicated attribute is inherited by derived classes or overridden members.

TypeId

ValidOn

ToString

1	
2	
3	Description
4	Gets a set of values identifying which program elements that the indicated
5	attribute can be applied to.
6	BadImageFormatException class (System)
7	ToString
8	
9	
10	Description
11	The exception that is thrown when the file image of a DLL or an executable
12	program is invalid.
13	System.BadImageFormatException uses the HRESULT
14	COR_E_BADIMAGEFORMAT, which has the value 0x8007000B.
15	BadImageFormatException
16	Example Syntax:
17	ToString
18	
19	[C#] public BadImageFormatException();
20	[C++] public: BadImageFormatException();
21	[VB] Public Sub New()
22	[JScript] public function BadImageFormatException(); Initializes a new instance
23	of the System.BadImageFormatException class.
24	
25	Description

1	Initializes a new instance of the System.BadImageFormatException class
2	with default properties.
3	The following table shows the initial property values for an instance of
4	System.BadImageFormatException .
5	BadImageFormatException
6	Example Syntax:
7	ToString
8	
9	[C#] public BadImageFormatException(string message);
10	[C++] public: BadImageFormatException(String* message);
11	[VB] Public Sub New(ByVal message As String)
12	[JScript] public function BadImageFormatException(message : String);
13	
14	Description
15	Initializes a new instance of the System.BadImageFormatException class
16	with a specified error message.
17	The following table shows the initial property values for an instance of
18	System.BadImageFormatException . The error message that explains the reason
19	for the exception.
20	BadImageFormatException
21	Example Syntax:
22	ToString
23	
24	[C#] protected BadImageFormatException(SerializationInfo info,
25	StreamingContext context);

1	[C++] protected: BadImageFormatException(SerializationInfo* info,
2	StreamingContext context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function BadImageFormatException(info: SerializationInfo,
6	context : StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.BadImageFormatException class
10	with serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	BadImageFormatException
16	Example Syntax:
17	ToString
18	
19	[C#] public BadImageFormatException(string message, Exception inner);
20	[C++] public: BadImageFormatException(String* message, Exception* inner);
21	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
22	[JScript] public function BadImageFormatException(message : String, inner :
23	Exception);
24	
25	Description

Initializes a new instance of the **System.BadImageFormatException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If *inner* is non-null, then the current **Exception** is raised in a catch block handling *inner*.

BadImageFormatException

Example Syntax:

ToString

[C#] public BadImageFormatException(string message, string fileName);
[C++] public: BadImageFormatException(String* message, String* fileName);
[VB] Public Sub New(ByVal message As String, ByVal fileName As String)
[JScript] public function BadImageFormatException(message: String, fileName: String);

Description

Initializes a new instance of the **System.BadImageFormatException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . A reference to the inner exception.

BadImageFormatException

Example Syntax:

ToString

[C#] public BadImageFormatException(string message, string fileName, Exception inner);

[C++] public: BadImageFormatException(String* message, String* fileName, Exception* inner);

[VB] Public Sub New(ByVal message As String, ByVal fileName As String, ByVal inner As Exception)

[JScript] public function BadImageFormatException(message : String, fileName : String, inner : Exception);

Description

Initializes a new instance of the **System.BadImageFormatException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An

1	instance of System. Exception that is the cause of the current Exception. If inner
2	is non-null, then the current Exception is raised in a catch block handling inner.
3	FileName
4	ToString
5	
6	[C#] public string FileName {get;}
7	[C++] public:property String* get_FileName();
8	[VB] Public ReadOnly Property FileName As String
9	[JScript] public function get FileName(): String;
10	
11	Description
12	Gets the name of the file that causes this exception.
13	FusionLog
14	ToString
15	
16	[C#] public string FusionLog {get;}
17	[C++] public:property String* get_FusionLog();
18	[VB] Public ReadOnly Property FusionLog As String
19	[JScript] public function get FusionLog() : String;
20	
21	Description
22	Gets the log file that describes why loading of an assembly failed.
23	HelpLink
24	HResult
25	InnerException

1	Message
2	ToString
3	
4	
5	Description
6	Gets the error message and the name of the file that caused this exception.
7	Source
8	StackTrace
9	TargetSite
10	GetObjectData
11	
12	[C#] public override void GetObjectData(SerializationInfo info, StreamingContext
13	context);
14	[C++] public: void GetObjectData(SerializationInfo* info, StreamingContext
15	context);
16	[VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo,
17	ByVal context As StreamingContext)
18	[JScript] public override function GetObjectData(info: SerializationInfo, context:
19	StreamingContext);
20	
21	Description
22	Sets the System.Runtime.Serialization.SerializationInfo object with the
23	file name, fusion log, and additional exception information.
24	ToString
25	

]]	
1	rowa 11:
2	[C#] public override string ToString();
3	[C++] public: String* ToString();
4	[VB] Overrides Public Function ToString() As String
5	[JScript] public override function ToString(): String;
6	
7	Description
8	Returns the fully qualified name of this exception and possibly the error
9	message, the name of the inner exception, and the stack trace.
10	Return Value: A string containing the fully qualified name of this exception and
11	possibly the error message, the name of the inner exception, and the stack trace.
12	BitConverter class (System)
13	ToString
14	
15	
16	Description
17	Converts base data types to an array of bytes, and an array of bytes to base
18	data types.
19	This class facilitates manipulating value types in their fundamental form. A
20	byte is defined as an 8-bit unsigned integer.
21	ToString
22	
23	[C#] public static readonly bool IsLittleEndian;
24	[C++] public: static bool IsLittleEndian;
25	[VB] Public Shared ReadOnly IsLittleEndian As Boolean

[JScript] public static var IsLittleEndian: Boolean; 2 Description 3 Indicates the byte order ("endianess") in which data is stored in this 4 computer architecture. 5 This value is **true** if the architecture is little-endian; **false** if it is big-endian. 6 DoubleToInt64Bits 7 8 [C#] public static long DoubleToInt64Bits(double value); 9 [C++] public: static int64 DoubleToInt64Bits(double value); 10 [VB] Public Shared Function DoubleToInt64Bits(ByVal value As Double) As 11 Long 12 [JScript] public static function DoubleToInt64Bits(value : double) : long; 13 14 Description 15 Converts the specified double-precision floating point number to a 64-bit 16 signed integer. 17 Return Value: A 64-bit signed integer whose value is equivalent to value. The 18 number to convert. 19 **GetBytes** 20 21 [C#] public static byte[] GetBytes(bool value); 22 [C++] public: static unsigned char GetBytes(bool value) gc[]; 23 [VB] Public Shared Function GetBytes(ByVal value As Boolean) As Byte() 24 [JScript] public static function GetBytes(value : Boolean) : Byte[]; Converts the 25

1	specified data to an array of bytes.
2	
3	Description
4	Returns the specified Boolean value as an array of bytes.
5	Return Value: An array of bytes with length 1. A Boolean value.
6	GetBytes
7	
8	[C#] public static byte[] GetBytes(char value);
9	[C++] public: static unsigned char GetBytes(wchar_t value)gc[];
10	[VB] Public Shared Function GetBytes(ByVal value As Char) As Byte()
11	[JScript] public static function GetBytes(value : Char) : Byte[];
12	
13	Description
14	Returns the specified Unicode character value as an array of bytes.
15	Return Value: An array of bytes with length 2. A character to convert.
16	GetBytes
17	
18	[C#] public static byte[] GetBytes(double value);
19	[C++] public: static unsigned char GetBytes(double value)gc[];
20	[VB] Public Shared Function GetBytes(ByVal value As Double) As Byte()
21	[JScript] public static function GetBytes(value : double) : Byte[];
22	
23	Description
24	
25	

1	Returns the specified double-precision floating point value as an array of
2	bytes.
3	Return Value: An array of bytes with length 8. The number to convert.
4	GetBytes
5	
6	[C#] public static byte[] GetBytes(short value);
7	[C++] public: static unsigned char GetBytes(short value)gc[];
8	[VB] Public Shared Function GetBytes(ByVal value As Short) As Byte()
9	[JScript] public static function GetBytes(value : Int16) : Byte[];
10	
11	Description
12	Returns the specified 16-bit signed integer value as an array of bytes.
13	Return Value: An array of bytes with length 2. The number to convert.
14	GetBytes
15	
16	[C#] public static byte[] GetBytes(int value);
17	[C++] public: static unsigned char GetBytes(int value)gc[];
18	[VB] Public Shared Function GetBytes(ByVal value As Integer) As Byte()
19	[JScript] public static function GetBytes(value : int) : Byte[];
20	
21	Description
22	Returns the specified 32-bit signed integer value as an array of bytes.
23	Return Value: An array of bytes with length 4. The number to convert.
24	GetBytes
25	

1	
2	[C#] public static byte[] GetBytes(long value);
3	[C++] public: static unsigned char GetBytes(int64 value)gc[];
4	[VB] Public Shared Function GetBytes(ByVal value As Long) As Byte()
5	[JScript] public static function GetBytes(value : long) : Byte[];
6	
7	Description
8	Returns the specified 64-bit signed integer value as an array of bytes.
9	Return Value: An array of bytes with length 8. The number to convert.
10	GetBytes
11	
12	[C#] public static byte[] GetBytes(float value);
13	[C++] public: static unsigned char GetBytes(float value)gc[];
14	[VB] Public Shared Function GetBytes(ByVal value As Single) As Byte()
15	[JScript] public static function GetBytes(value : float) : Byte[];
16	
17	Description
18	Returns the specified single-precision floating point value as an array of
19	bytes.
20	Return Value: An array of bytes with length 4. The number to convert.
21	GetBytes
22	
23	[C#] public static byte[] GetBytes(ushort value);
24	[C++] public: static unsigned char GetBytes(unsigned short value)gc[];
25	[VB] Public Shared Function GetBytes(ByVal value As UInt16) As Byte()

1	[JScript] public static function GetBytes(value : UInt16) : Byte[];
2	
3	Description
4	Returns the specified 16-bit unsigned integer value as an array of bytes.
5	Return Value: An array of bytes with length 2. The number to convert.
6	GetBytes
7	
8	[C#] public static byte[] GetBytes(uint value);
9	[C++] public: static unsigned char GetBytes(unsigned int value)gc[];
10	[VB] Public Shared Function GetBytes(ByVal value As UInt32) As Byte()
11	[JScript] public static function GetBytes(value : UInt32) : Byte[];
12	
13	Description
14	Returns the specified 32-bit unsigned integer value as an array of bytes.
15	Return Value: An array of bytes with length 4. The number to convert.
16	GetBytes
17	
18	[C#] public static byte[] GetBytes(ulong value);
19	[C++] public: static unsigned char GetBytes(unsignedint64 value)gc[];
20	[VB] Public Shared Function GetBytes(ByVal value As UInt64) As Byte()
21	[JScript] public static function GetBytes(value : UInt64) : Byte[];
22	
23	Description
24	Returns the specified 64-bit unsigned integer value as an array of bytes.
25	Return Value: An array of bytes with length 8. The number to convert.

Int64BitsToDouble

[C#] public static double Int64BitsToDouble(long value);

[C++] public: static double Int64BitsToDouble(__int64 value);

[VB] Public Shared Function Int64BitsToDouble(ByVal value As Long) As

Double

[JScript] public static function Int64BitsToDouble(value : long) : double;

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Description

Converts the specified 64-bit signed integer to a double-precision floating point number.

Return Value: A double-precision floating point number whose value is equivalent to value. The number to convert.

ToBoolean

[C#] public static bool ToBoolean(byte[] value, int startIndex);

[C++] public: static bool ToBoolean(unsigned char value __gc[], int startIndex);

[VB] Public Shared Function ToBoolean(ByVal value() As Byte, ByVal

startIndex As Integer) As Boolean

[JScript] public static function ToBoolean(value : Byte[], startIndex : int) :

21 Boolean;

Description

Returns a Boolean value converted from one byte at a specified position in a byte array.

1	Return Value: true if the byte at startIndex in value is nonzero; otherwise, false.
2	An array of bytes. The starting position within value.
3	ToChar
4	
5	[C#] public static char ToChar(byte[] value, int startIndex);
6	[C++] public: staticwchar_t ToChar(unsigned char valuegc[], int startIndex)
7	[VB] Public Shared Function ToChar(ByVal value() As Byte, ByVal startIndex
8	As Integer) As Char
9	[JScript] public static function ToChar(value : Byte[], startIndex : int) : Char;
10	
11	Description
12	Returns a Unicode character converted from two bytes at a specified
13	position in a byte array.
14	Return Value: A character formed by two bytes beginning at startIndex. An array.
15	The starting position within <i>value</i> .
16	ToDouble
17	
18	[C#] public static double ToDouble(byte[] value, int startIndex);
19	[C++] public: static double ToDouble(unsigned char valuegc[], int startIndex);
20	[VB] Public Shared Function ToDouble(ByVal value() As Byte, ByVal startIndex
21	As Integer) As Double
22	[JScript] public static function ToDouble(value : Byte[], startIndex : int) : double;
23	
24	Description
25	

Returns a double-precision floating point number converted from eight bytes at a specified position in a byte array.

Return Value: A double precision floating point number formed by eight bytes beginning at startIndex. An array of bytes. The starting position within value.

ToInt16

[C#] public static short ToInt16(byte[] value, int startIndex);

[C++] public: static short ToInt16(unsigned char value __gc[], int startIndex);

[VB] Public Shared Function ToInt16(ByVal value() As Byte, ByVal startIndex

As Integer) As Short

[JScript] public static function ToInt16(value : Byte[], startIndex : int) : Int16;

Description

Returns a 16-bit signed integer converted from two bytes at a specified position in a byte array.

Return Value: A 16-bit signed integer formed by two bytes beginning at startIndex. An array of bytes. The starting position within value.

ToInt32

[C#] public static int ToInt32(byte[] value, int startIndex);

[C++] public: static int ToInt32(unsigned char value __gc[], int startIndex);

[VB] Public Shared Function ToInt32(ByVal value() As Byte, ByVal startIndex

As Integer) As Integer

[JScript] public static function ToInt32(value : Byte[], startIndex : int) : int;

Description

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24

Returns a 32-bit signed integer converted from four bytes at a specified position in a byte array.

Return Value: A 32-bit signed integer formed by four bytes beginning at startIndex.value is **null**. An array of bytes. The starting position within value.

ToInt64

[C#] public static long ToInt64(byte[] value, int startIndex);

[C++] public: static __int64 ToInt64(unsigned char value __gc[], int startIndex);

[VB] Public Shared Function ToInt64(ByVal value() As Byte, ByVal startIndex

As Integer) As Long

[JScript] public static function ToInt64(value : Byte[], startIndex : int) : long;

Description

Returns a 64-bit signed integer converted from eight bytes at a specified position in a byte array.

Return Value: A 64-bit signed integer formed by eight bytes beginning at startIndex. An array of bytes. The starting position within value.

ToSingle

[C#] public static float ToSingle(byte[] value, int startIndex);

[C++] public: static float ToSingle(unsigned char value __gc[], int startIndex);

[VB] Public Shared Function ToSingle(ByVal value() As Byte, ByVal startIndex

As Integer) As Single

1	[JScript] public static function ToSingle(value : Byte[], startIndex : int) : float;
2	
3	Description
4	Returns a single-precision floating point number converted from four bytes
5	at a specified position in a byte array.
6	Return Value: A single-precision floating point number formed by four bytes
7	beginning at startIndex. An array of bytes. The starting position within value.
8	ToString
9	
10	[C#] public static string ToString(byte[] value);
11	[C++] public: static String* ToString(unsigned char valuegc[]);
12	[VB] Public Shared Function ToString(ByVal value() As Byte) As String
13	[JScript] public static function ToString(value : Byte[]) : String;
14	
15	Description
16	Returns a String converted from the elements of a byte array.
17	Return Value: A System.String of hexadecimal pairs separated by hyphens, where
18	each pair represents the corresponding element in value; for example, "7F-2C-
19	4A".
20	All the elements of value are converted. An array of bytes.
21	ToString
22	
23	[C#] public static string ToString(byte[] value, int startIndex);
24	[C++] public: static String* ToString(unsigned char valuegc[], int startIndex);
25	[VB] Public Shared Function ToString(ByVal value() As Byte, ByVal startIndex
	•

As Integer) As String

[JScript] public static function ToString(value : Byte[], startIndex : int) : String;

Description

Returns a **String** converted from the elements of a byte array starting at a specified array position.

Return Value: A System.String of hexadecimal pairs separated by hyphens, where each pair represents the corresponding element in value; for example, "7F-2C-4A".

The elements from array position *startIndex* to the end of the array are converted. An array of bytes. The starting position within *value*.

ToString

[C#] public static string ToString(byte[] value, int startIndex, int length);

[C++] public: static String* ToString(unsigned char value __gc[], int startIndex, int length);

[VB] Public Shared Function ToString(ByVal value() As Byte, ByVal startIndex As Integer, ByVal length As Integer) As String

[JScript] public static function ToString(value : Byte[], startIndex : int, length : int) : String; Returns a **String** converted from the elements of a byte array.

Description

Returns a **String** converted from a specified number of bytes at a specified position in a byte array.

Return Value: A System.String of hexadecimal pairs separated by hyphens, where

each pair represents the corresponding element in value; for example, "7F-2C-4A". 2 The *length* elements from array position *startIndex* are converted. An array 3 of bytes. The starting position within *value*. The number of bytes to convert. ToUInt16 5 6 [C#] public static ushort ToUInt16(byte[] value, int startIndex); 7 [C++] public: static unsigned short ToUInt16(unsigned char value gc[], int 8 startIndex); 9 [VB] Public Shared Function ToUInt16(ByVal value() As Byte, ByVal startIndex 10 As Integer) As UInt16 11 [JScript] public static function ToUInt16(value : Byte[], startIndex : int) : UInt16; 12 13 Description 14 Returns a 16-bit unsigned integer converted from two bytes at a specified 15 position in a byte array. 16 Return Value: A 16-bit unsigned integer formed by two bytes beginning at 17 startIndex. The array of bytes. The starting position within value. 18 ToUInt32 19 20 [C#] public static uint ToUInt32(byte[] value, int startIndex); 21 [C++] public: static unsigned int ToUInt32(unsigned char value gc[], int 22 startIndex); 23 [VB] Public Shared Function ToUInt32(ByVal value() As Byte, ByVal startIndex 24

As Integer) As UInt32

[JScript] public static function ToUInt32(value : Byte[], startIndex : int) : UInt32; 2 Description 3 Returns a 32-bit unsigned integer converted from four bytes at a specified 4 position in a byte array. 5 Return Value: A 32-bit unsigned integer formed by four bytes beginning at 6 startIndex. An array of bytes. The starting position within value. 7 ToUInt64 8 9 [C#] public static ulong ToUInt64(byte[] value, int startIndex); 10 [C++] public: static unsigned __int64 ToUInt64(unsigned char value __gc[], int 11 startIndex); 12 [VB] Public Shared Function ToUInt64(ByVal value() As Byte, ByVal startIndex 13 As Integer) As UInt64 14 [JScript] public static function ToUInt64(value : Byte[], startIndex : int) : UInt64; 15 16 Description 17 Returns a 64-bit unsigned integer converted from eight bytes at a specified 18 position in a byte array. 19 Return Value: A 64-bit unsigned integer formed by the eight bytes beginning at 20 startIndex. An array of bytes. The starting position within value. 21 Boolean structure (System) 22 ToUInt64 23 24 25

11	
1	
2	
3	Description
4	Represents a boolean value.
5	Instances of this type have values of either true or false.
6	ToUInt64
7	
8	[C#] public static readonly string FalseString;
9	[C++] public: static String* FalseString;
10	[VB] Public Shared ReadOnly FalseString As String
11	[JScript] public static var FalseString : String;
12	
13	Description
14	Represents the boolean value false as a System.String. This field is read-
15	only.
16	This field is equal to the System.String "False".
17	ToUInt64
18	
19	[C#] public static readonly string TrueString;
20	[C++] public: static String* TrueString;
21	[VB] Public Shared ReadOnly TrueString As String
22	[JScript] public static var TrueString : String;
23	
24	Description
25	

Represents the boolean value true as a System. String. This field is read-1 only. 2 This field is equal to the System.String "True". 3 CompareTo 5 [C#] public int CompareTo(object obj); 6 [C++] public: sealed int CompareTo(Object* obj); 7 [VB] NotOverridable Public Function CompareTo(ByVal obj As Object) As 8 Integer 9 [JScript] public function CompareTo(obj : Object) : int; 10 11 Description 12 Compares this instance to a specified object and returns an indication of 13 their relative values. 14 Return Value: A signed integer that indicates the relative order of this instance and 15 obj. 16 obj must be null or an instance of Boolean; otherwise, an exception is 17 thrown. An System.Object to compare to this instance. It may be a null reference. 18 **Equals** 19 20 [C#] public override bool Equals(object obj); 21 [C++] public: bool Equals(Object* obj); 22 [VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean 23 [JScript] public override function Equals(obj : Object) : Boolean; 24 25

1 Description 2 Returns a value indicating whether this instance is equal to a specified 3 object. 4 Return Value: true if obj is a Boolean and has the same value as this instance; 5 otherwise, false. 6 This method overrides ${\bf System. Object. Equals (System. Object)}$. An 7 System.Object to compare to this instance. 8 GetHashCode 9 10 [C#] public override int GetHashCode(); 11 [C++] public: int GetHashCode(); 12 [VB] Overrides Public Function GetHashCode() As Integer 13 [JScript] public override function GetHashCode(): int; 14 15 Description 16 Returns the hash code for this instance. 17 Return Value: A hash code for the current System.Boolean. 18 The System.Boolean class implements true as the integer, one, and false as 19 the integer, zero. However, a particular programming language might represent 20 true and false with other values. 21 GetTypeCode 22 23 [C#] public TypeCode GetTypeCode(); [C++] public: __sealed TypeCode GetTypeCode();

1	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
2	[JScript] public function GetTypeCode(): TypeCode;
3	
4	Description
5	Returns the TypeCode for value type Boolean .
6	Return Value: The enumerated constant, System.TypeCode.Boolean.
7	Parse
8	
9	[C#] public static bool Parse(string value);
10	[C++] public: static bool Parse(String* value);
11	[VB] Public Shared Function Parse(ByVal value As String) As Boolean
12	[JScript] public static function Parse(value : String) : Boolean;
13	
14	Description
15	Converts the specified System.String representation of a logical value to
16	its System.Boolean equivalent.
17	Return Value: true if value is equivalent to System.Boolean.TrueString;
18	otherwise false.value is a null reference.
19	The value parameter, optionally preceded or trailed by white space, must
20	contain either TrueString or FalseString; otherwise, an exception is thrown. The
21	comparison is case-insensitive. A System.String containing the value to convert.
22	IConvertible.ToBoolean
23	
24	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
25	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
-	

1	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
2	Implements IConvertible.ToBoolean
3	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
4	IConvertible.ToByte
5	
6	[C#] byte IConvertible.ToByte(IFormatProvider provider);
7	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
8	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
9	IConvertible.ToByte
10	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
11	IConvertible.ToChar
12	
13	[C#] char IConvertible.ToChar(IFormatProvider provider);
14	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
15	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
16	IConvertible.ToChar
17	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
18	IConvertible.ToDateTime
19	
20	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
21	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
22	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
23	Implements IConvertible.ToDateTime
24	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
25	DateTime;

1	IConvertible.ToDecimal
2	
3	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
4	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
5	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
6	Implements IConvertible.ToDecimal
7	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
8	IConvertible.ToDouble
9	
10	[C#] double IConvertible.ToDouble(IFormatProvider provider);
11	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
12	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
13	Implements IConvertible.ToDouble
14	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
15	IConvertible.ToInt16
16	
17	[C#] short IConvertible.ToInt16(IFormatProvider provider);
18	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
19	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
20	Implements IConvertible.ToInt16
21	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
22	IConvertible.ToInt32
23	
24	[C#] int IConvertible.ToInt32(IFormatProvider provider);

[C++] int IConvertible::ToInt32(IFormatProvider* provider);

1	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
2	Implements IConvertible.ToInt32
3	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
4	IConvertible.ToInt64
5	
6	[C#] long IConvertible.ToInt64(IFormatProvider provider);
7	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
8	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
9	IConvertible.ToInt64
10	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
11	IConvertible.ToSByte
12	
13	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
14	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
15	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
16	Implements IConvertible.ToSByte
17	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
18	IConvertible.ToSingle
19	
20	[C#] float IConvertible.ToSingle(IFormatProvider provider);
21	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
22	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
23	Implements IConvertible.ToSingle
24	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
25	IConvertible.ToType

1	
2	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
3	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
4	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
5	As Object Implements IConvertible.ToType
6	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
7	Object;
8	IConvertible.ToUInt16
9	
10	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
11	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
12	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
13	Implements IConvertible.ToUInt16
14	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
15	IConvertible.ToUInt32
16	
17	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
18	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
19	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
20	Implements IConvertible.ToUInt32
21	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
22	IConvertible.ToUInt64
23	
24	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
25	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);

1	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
2	Implements IConvertible.ToUInt64
3	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
4	ToString
5	
6	[C#] public override string ToString();
7	[C++] public: String* ToString();
8	[VB] Overrides Public Function ToString() As String
9	[JScript] public override function ToString(): String; Converts the value of this
10	instance to its equivalent System.String representation.
11	
12	Description
13	Converts the value of this instance to its equivalent System.String
14	representation.
15	Return Value: System.Boolean.TrueString if the value of this instance is true,
16	or System.Boolean.FalseString if the value of this instance is false.
17	ToString
18	
19	[C#] public string ToString(IFormatProvider provider);
20	[C++] public:sealed String* ToString(IFormatProvider* provider);
21	[VB] NotOverridable Public Function ToString(ByVal provider As
22	IFormatProvider) As String
23	[JScript] public function ToString(provider : IFormatProvider) : String;
24	
25	Description

Converts the value of this instance to its equivalent String representation.

Return Value: System.Boolean.TrueString if the value of this instance is true,
or System.Boolean.FalseString if the value of this instance is false.

The *provider* parameter is reserved. It does not participate in the execution of this method. (Reserved) An **System.IFormatProvider** object.

Buffer class (System)

ToString

Description

Manipulates unmanaged memory represented as arrays of bytes.

This class provides methods to copy bytes from one primitive array to another primitive array without respecting types, get a byte from an array, set a byte in an array, and obtain the length of an array.

BlockCopy

[C#] public static void BlockCopy(Array src, int srcOffset, Array dst, int dstOffset, int count);

[C++] public: static void BlockCopy(Array* src, int srcOffset, Array* dst, int dstOffset, int count);

[VB] Public Shared Sub BlockCopy(ByVal src As Array, ByVal srcOffset As Integer, ByVal dst As Array, ByVal dstOffset As Integer, ByVal count As Integer)

[JScript] public static function BlockCopy(src: Array, srcOffset: int, dst: Array, dstOffset: int, count: int);

Description Copie particular of

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22

Copies a specified number of bytes from a source array starting at a particular offset to a destination array starting at a particular offset.

Copies *count* bytes from *src*, beginning at *srcOffset*, to *dst*, beginning at *dstOffset*. The source buffer. The byte offset into *src*. The destination buffer. The byte offset into *dst*. The number of bytes to copy.

ByteLength

[C#] public static int ByteLength(Array array);

[C++] public: static int ByteLength(Array* array);

[VB] Public Shared Function ByteLength(ByVal array As Array) As Integer

[JScript] public static function ByteLength(array : Array) : int;

Description

Returns the number of bytes in the specified array.

Return Value: The number of bytes in the array. An array.

GetByte

[C#] public static byte GetByte(Array array, int index);

[C++] public: static unsigned char GetByte(Array* array, int index);

[VB] Public Shared Function GetByte(ByVal array As Array, ByVal index As

Integer) As Byte

[JScript] public static function GetByte(array : Array, index : int) : Byte;

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1	
2	Description
3	Retrieves the byte at a specified location in a specified array.
4	Return Value: Returns the index byte in the array.
5	The GetByte method gets a particular byte out of the array. The array must
6	be an array of primitives. An array. A location in the array.
7	SetByte
8	
9	[C#] public static void SetByte(Array array, int index, byte value);
10	[C++] public: static void SetByte(Array* array, int index, unsigned char value);
11	[VB] Public Shared Sub SetByte(ByVal array As Array, ByVal index As Integer,
12	ByVal value As Byte)
13	[JScript] public static function SetByte(array : Array, index : int, value : Byte);
14	
15	Description
16	Assigns a specified value to a byte at a particular location in a specified
17	array.
18	array must be an array of primitives. An array. A location in the array. A
19	value to assign.
20	Byte structure (System)
21	ToString
22	
23	
24	Description

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Represents an 8-bit unsigned integer.

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1	The Byte value type represents unsigned integers with values ranging from
2	0 to 255.
3	ToString
4	
5	[C#] public const byte MaxValue;
6	[C++] public: const unsigned char MaxValue;
7	[VB] Public Const MaxValue As Byte
8	[JScript] public var MaxValue : Byte;
9	
10	Description
11	A constant representing the largest possible value of Byte.
12	The value of this constant is 255; that is, hexadecimal 0xFF.
13	ToString
14	
15	[C#] public const byte MinValue;
16	[C++] public: const unsigned char MinValue;
17	[VB] Public Const MinValue As Byte
18	[JScript] public var MinValue : Byte;
19	
20	Description
21	A constant representing the smallest possible value of Byte.
22	The value of this constant is 0.
23	CompareTo
24	
25	[C#] public int CompareTo(object value);

1	[C++] public:sealed int CompareTo(Object* value);
2	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
3	Integer
4	[JScript] public function CompareTo(value : Object) : int;
5	
6	Description
7	Compares this instance to a specified object and returns an indication of
8	their relative values.
9	Return Value: A signed number indicating the relative values of this instance and
10	value .
11	Any instance of Byte, regardless of its value, is considered greater than
12	null. An object to compare, or null.
13	Equals
14	
15	[C#] public override bool Equals(object obj);
16	[C++] public: bool Equals(Object* obj);
17	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
18	[JScript] public override function Equals(obj : Object) : Boolean;
19	
20	Description
21	Returns a value indicating whether this instance is equal to a specified
22	object.
23	Return Value: true if obj is an instance of Byte and equals the value of this
24	instance; otherwise, false. An object to compare with this instance or null.
25	GetHashCode

1	
2	[C#] public override int GetHashCode();
3	[C++] public: int GetHashCode();
4	[VB] Overrides Public Function GetHashCode() As Integer
5	[JScript] public override function GetHashCode(): int;
6	
7	Description
8	Returns the hash code for this instance.
9	Return Value: A 32-bit signed integer hash code.
10	GetTypeCode
11	
12	[C#] public TypeCode GetTypeCode();
13	[C++] public:sealed TypeCode GetTypeCode();
14	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
15	[JScript] public function GetTypeCode(): TypeCode;
16	
17	Description
18	Returns the TypeCode for value type Byte .
19	Return Value: The enumerated constant, System.TypeCode.Byte.
20	Parse
21	
22	[C#] public static byte Parse(string s);
23	[C++] public: static unsigned char Parse(String* s);
24	[VB] Public Shared Function Parse(ByVal s As String) As Byte
25	[JScript] public static function Parse(s : String) : Byte; Converts the String

representation of a number to its 8-bit unsigned integer equivalent.

Description

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Converts the **String** representation of a number to its 8-bit unsigned integer equivalent.

Return Value: An 8-bit unsigned integer equivalent to the number contained in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert.

Parse

[C#] public static byte Parse(string s, IFormatProvider provider);

[C++] public: static unsigned char Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As Byte

[JScript] public static function Parse(s : String, provider : IFormatProvider) : Byte;

Description

Converts the **String** representation of a number in a specified culturespecific format to its 8-bit unsigned integer equivalent.

Return Value: An 8-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

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[C#] public static byte Parse(string s, NumberStyles style);

[C++] public: static unsigned char Parse(String* s, NumberStyles style);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles) As Byte

[JScript] public static function Parse(s : String, style : NumberStyles) : Byte;

Description

Converts the **String** representation of a number in a specified style to its 8-bit unsigned integer equivalent.

Return Value: An 8-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. The combination of one or more

System.Globalization.NumberStyles constants that indicate the permitted format of *s*.

Parse

[C#] public static byte Parse(string s, NumberStyles style, IFormatProvider provider);

[C++] public: static unsigned char Parse(String* s, NumberStyles style,

IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles, ByVal provider As IFormatProvider) As Byte

[JScript] public static function Parse(s : String, style : NumberStyles, provider : IFormatProvider) : Byte;

Description

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Converts the **String** representation of a number in a specified style and culture-specific format to its 8-bit unsigned integer equivalent.

Return Value: An 8-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. The combination of one or more **System.Globalization.NumberStyles**constants that indicate the permitted format of s. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

IConvertible.ToBoolean

[C#] bool IConvertible.ToBoolean(IFormatProvider provider);

[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);

[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean Implements IConvertible.ToBoolean

[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean; IConvertible.ToByte

 $[C\#]\ byte\ IConvertible. To Byte (IF or mat Provider\ provider);$

[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);

[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements

1	IConvertible.ToByte
2	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
3	IConvertible.ToChar
4	
5	[C#] char IConvertible.ToChar(IFormatProvider provider);
6	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
7	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
8	IConvertible.ToChar
9	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
10	IConvertible.ToDateTime
11	
12	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
13	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
14	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
15	Implements IConvertible.ToDateTime
16	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
17	DateTime;
18	IConvertible.ToDecimal
19	
20	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
21	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
22	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
23	Implements IConvertible.ToDecimal
24	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
25	IConvertible.ToDouble

1	
2	[C#] double IConvertible.ToDouble(IFormatProvider provider);
3	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
4	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
5	Implements IConvertible.ToDouble
6	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
7	IConvertible.ToInt16
8	
9	[C#] short IConvertible.ToInt16(IFormatProvider provider);
10	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
11	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
12	Implements IConvertible.ToInt16
13	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
14	IConvertible.ToInt32
15	
16	[C#] int IConvertible.ToInt32(IFormatProvider provider);
17	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
18	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
19	Implements IConvertible.ToInt32
20	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
21	IConvertible.ToInt64
22	
23	[C#] long IConvertible.ToInt64(IFormatProvider provider);
24	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
25	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements

1	Convertible, I ointo4
2	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
3	IConvertible.ToSByte
4	
5	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
6	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
7	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
8	Implements IConvertible.ToSByte
9	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
10	IConvertible.ToSingle
11	
12	[C#] float IConvertible.ToSingle(IFormatProvider provider);
13	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
14	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
15	Implements IConvertible.ToSingle
16	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
17	IConvertible.ToType
18	
19	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
20	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
21	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
22	As Object Implements IConvertible.ToType
23	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
24	Object;
25	IConvertible.ToUInt16

1	
2	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
3	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
4	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
5	Implements IConvertible.ToUInt16
6	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
7	IConvertible.ToUInt32
8	
9	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
10	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
11	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
12	Implements IConvertible.ToUInt32
13	[JScript] function IConvertible.ToUInt32(provider: IFormatProvider): UInt32;
14	IConvertible.ToUInt64
15	
16	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
17	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
18	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
19	Implements IConvertible.ToUInt64
20	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64
21	ToString
22	
23	[C#] public override string ToString();
24	[C++] public: String* ToString();
	[VR] Overrides Public Function ToString() As String

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[JScript] public override function ToString(): String; Converts the numeric value of this instance to its equivalent String representation. Description Converts the numeric value of this instance to its equivalent String representation. Return Value: The System.String representation of the value of this instance, consisting of a sequence of digits ranging from 0 to 9, without a sign or leading zeroes. The return value is formatted with the general format specifier ("G") and the System. Globalization. Number Format Info for the current culture. **ToString** [C#] public string ToString(IFormatProvider provider); [C++] public: __sealed String* ToString(IFormatProvider* provider); [VB] NotOverridable Public Function ToString(ByVal provider As IFormatProvider) As String [JScript] public function ToString(provider : IFormatProvider) : String; Description Converts the numeric value of this instance to its equivalent String representation using the specified culture-specific format information. Return Value: The System.String representation of the value of this instance as specified by provider.

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This instance is formatted with the general format specifier ("G"). An 1 System.IFormatProvider interface implementation which supplies culture-2 specific formatting information. 3 **ToString** 5 [C#] public string ToString(string format); [C++] public: String* ToString(String* format); [VB] Public Function ToString(ByVal format As String) As String [JScript] public function ToString(format : String) : String; 10 Description 11 Converts the numeric value of this instance to its equivalent String 12 representation using the specified format. 13 Return Value: The System.String representation of the value of this instance as 14 specified by format. 15 If format is **null** or an empty string, the return value of this instance is 16 formatted with the general format specifier ("G"). A format string. 17 **ToString** 18 19 [C#] public string ToString(string format, IFormatProvider provider); 20 [C++] public: sealed String* ToString(String* format, IFormatProvider* provider); 22 [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal 23 provider As IFormatProvider) As String

[JScript] public function ToString(format : String, provider : IFormatProvider) :

String;

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Description

Converts the numeric value of this instance to its equivalent String representation using the specified format and culture-specific format information. Return Value: The System.String representation of the value of this instance as specified by format and provider.

If format is null or an empty string, the return value for this instance is formatted with the general format specifier ("G"). A format specification. An System.IFormatProvider interface implementation which supplies culturespecific formatting information.

CannotUnloadAppDomainException class (System)

ToString

Description

The exception that is thrown when an attempt to unload an application domain fails.

System.CannotUnloadAppDomainException is thrown when there is an attempt to unload: The default application domain, which must remains loaded during the lifetime of the application.

CannotUnloadAppDomainException

Example Syntax:

ToString

1	
2	[C#] public CannotUnloadAppDomainException();
3	[C++] public: CannotUnloadAppDomainException();
4	[VB] Public Sub New()
5	[JScript] public function CannotUnloadAppDomainException(); Initializes a new
6	instance of the System.CannotUnloadAppDomainException class.
7	
8	Description
9	Initializes a new instance of the
10	System.CannotUnloadAppDomainException class with default properties.
11	The following table shows the initial property values for an instance of
12	System.CannotUnloadAppDomainException.
13	CannotUnloadAppDomainException
14	Example Syntax:
15	ToString
16	
17	[C#] public CannotUnloadAppDomainException(string message);
18	[C++] public: CannotUnloadAppDomainException(String* message);
19	[VB] Public Sub New(ByVal message As String)
20	[JScript] public function CannotUnloadAppDomainException(message : String);
21	
22	Description
23	Initializes a new instance of the
24	System.CannotUnloadAppDomainException class with a specified error
25	message.

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The following table shows the initial property values for an instance of System.CannotUnloadAppDomainException . The error message that explains the reason for the exception. Cannot Unload App Domain ExceptionExample Syntax: **ToString** [C#] protected CannotUnloadAppDomainException(SerializationInfo info, StreamingContext context); [C++] protected: CannotUnloadAppDomainException(SerializationInfo* info, StreamingContext context); [VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext) [JScript] protected function CannotUnloadAppDomainException(info: SerializationInfo, context: StreamingContext); Description Initializes a new instance of the System.CannotUnloadAppDomainException class from serialized data. This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

CannotUnloadAppDomainException

Example Syntax:

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[C#] public CannotUnloadAppDomainException(string message, Exception innerException);

[C++] public: CannotUnloadAppDomainException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function CannotUnloadAppDomainException(message : String, innerException : Exception);

Description

Initializes a new instance of the

System.CannotUnloadAppDomainException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

HelpLink

1	HResult
2	InnerException
3	Message
4	Source
5	StackTrace
6	TargetSite
7	Char structure (System)
8	ToString
9	
10	
11	Description
12	Represents a Unicode character.
13	The Char value type represents Unicode characters with values ranging
14	from hexadecimal 0x0000 to 0xFFFF.
15	ToString
16	
17	[C#] public const char MaxValue;
18	[C++] public: constwchar_t MaxValue;
19	[VB] Public Const MaxValue As Char
20	[JScript] public var MaxValue : Char;
21	
22	Description
23	A constant representing the largest possible value of Char.
24	The value of this constant is hexadecimal 0xFFFF.
25	ToString

1 [C#] public const char MinValue; [C++] public: const __wchar_t MinValue; 3 [VB] Public Const MinValue As Char 4 [JScript] public var MinValue: Char; 5 6 Description 7 A constant representing the smallest possible value of Char. 8 The value of this constant is hexadecimal 0x00. CompareTo 10 11 [C#] public int CompareTo(object value); 12 [C++] public: __sealed int CompareTo(Object* value); 13 [VB] NotOverridable Public Function CompareTo(ByVal value As Object) As 14 Integer 15 [JScript] public function CompareTo(value : Object) : int; 16 17 Description 18 Compares this instance to a specified object and returns an indication of 19 their relative values. 20 Return Value: A signed number indicating the relative values of this instance and value. 22 Any instance of Char, regardless of its value, is considered greater than 23 null. An object to compare, or null. 24 **Equals** 25

1	
2	[C#] public override bool Equals(object obj);
3	[C++] public: bool Equals(Object* obj);
4	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
5	[JScript] public override function Equals(obj : Object) : Boolean;
6	
7	Description
8	Returns a value indicating whether this instance is equal to a specified
9	object.
10	Return Value: true if obj is an instance of Char and equals the value of this
11	instance; otherwise, false. An object to compare with this instance or null.
12	GetHashCode
13	
14	[C#] public override int GetHashCode();
15	[C++] public: int GetHashCode();
16	[VB] Overrides Public Function GetHashCode() As Integer
17	[JScript] public override function GetHashCode(): int;
18	
19	Description
20	Returns the hash code for this instance.
21	Return Value: A 32-bit signed integer hash code.
22	GetNumericValue
23	
24	[C#] public static double GetNumericValue(char c);
25	[C++] public: static double GetNumericValue(wchar_t c);

[VB] Public Shared Function GetNumericValue(ByVal c As Char) As Double [JScript] public static function GetNumericValue(c: Char): double; Converts a specified numeric Unicode character to a double-precision floating point number.

Description

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Converts the specified numeric Unicode character to a double-precision floating point number.

Return Value: The numeric value of c if that character represents a number; otherwise, -1.

For example, if c is '5', the return value is 5. However, if c is 'z', the return value is -1. A Unicode character.

GetNumericValue

[C#] public static double GetNumericValue(string s, int index);

[C++] public: static double GetNumericValue(String* s, int index);

[VB] Public Shared Function GetNumericValue(ByVal s As String, ByVal index As Integer) As Double

[JScript] public static function GetNumericValue(s : String, index : int) : double;

Description

Converts the numeric Unicode character at the specified position in a specified **System.String** to a double-precision floating point number.

Return Value: The numeric value of the character at position index in s if that character represents a number; otherwise, -1.

1	For example, if the character at position $index$ in s is '5', the return value is
2	5. However, if the character at position <i>index</i> in s is 'z', the return value is -1. A
3	System.String . A 32-bit signed integer that specifies a character position in s.
4	GetTypeCode
5	
6	[C#] public TypeCode GetTypeCode();
7	[C++] public:sealed TypeCode GetTypeCode();
8	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
9	[JScript] public function GetTypeCode() : TypeCode;
10	
11	Description
12	Returns the TypeCode for value type Char.
13	Return Value: The enumerated constant, System.TypeCode.Char.
14	GetUnicodeCategory
15	
16	[C#] public static UnicodeCategory GetUnicodeCategory(char c);
17	[C++] public: static UnicodeCategory GetUnicodeCategory(wchar_t c);
18	[VB] Public Shared Function GetUnicodeCategory(ByVal c As Char) As
19	UnicodeCategory
20	[JScript] public static function GetUnicodeCategory(c : Char) : UnicodeCategory
21	Categorizes a Unicode character into a group identified by a UnicodeCategory
22	enumerated constant.
23	
24	Description
25	

Categorizes a specified Unicode character into a group identified by a UnicodeCategory enumerated constant.

Return Value: A System. Globalization. Unicode Category enumerated constant that identifies the group that contains c. A Unicode character.

GetUnicodeCategory

[C#] public static UnicodeCategory GetUnicodeCategory(string s, int index);
[C++] public: static UnicodeCategory GetUnicodeCategory(String* s, int index);
[VB] Public Shared Function GetUnicodeCategory(ByVal s As String, ByVal index As Integer) As UnicodeCategory

[JScript] public static function GetUnicodeCategory(s: String, index: int):

UnicodeCategory;

Description

Categorizes the character at the specified position in a specified **String** into a group identified by a **UnicodeCategory** enumerated constant.

Return Value: A System. Globalization. Unicode Category enumerated constant that identifies the group that contains the character at position index in s.

Character positions in a **String** are indexed starting from zero. A **System.String**. A 32-bit signed integer that specifies a character position in s.

IsControl

[C#] public static bool IsControl(char c);

[C++] public: static bool IsControl(_wchar_t c);

[VB] Public Shared Function IsControl(ByVal c As Char) As Boolean

[JScript] public static function IsControl(c : Char) : Boolean; Indicates whether a specified Unicode character is categorized as a control character. 2 3 Description Indicates whether the specified Unicode character is categorized as a 5 control character. Return Value: true if c is a control character; otherwise, false. A Unicode character. **IsControl** 9 10 [C#] public static bool IsControl(string s, int index); 11 [C++] public: static bool IsControl(String* s, int index); 12 [VB] Public Shared Function IsControl(ByVal s As String, ByVal index As 13 Integer) As Boolean 14 [JScript] public static function IsControl(s: String, index: int): Boolean; 15 16 Description 17 Indicates whether the character at the specified position in a specified 18 String is categorized as a control character. 19 Return Value: true if the character at position index in s is a control character; 20 otherwise, false. 21 Character positions in a **String** are indexed starting from zero. A 22 **System.String.** A 32-bit signed integer that specifies a character position in s. 23 **IsDigit** 24

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1	
2	[C#] public static bool IsDigit(char c);
3	[C++] public: static bool IsDigit(wchar_t c);
4	[VB] Public Shared Function IsDigit(ByVal c As Char) As Boolean
5	[JScript] public static function IsDigit(c : Char) : Boolean; Indicates whether a
6	Unicode character is categorized as a decimal digit.
7	
8	Description
9	Indicates whether the specified Unicode character is categorized as a
10	decimal digit.
11	Return Value: true if c is a decimal digit; otherwise, false. A Unicode character.
12	IsDigit
13	
14	[C#] public static bool IsDigit(string s, int index);
15	[C++] public: static bool IsDigit(String* s, int index);
16	[VB] Public Shared Function IsDigit(ByVal s As String, ByVal index As Integer)
17	As Boolean
18	[JScript] public static function IsDigit(s : String, index : int) : Boolean;
19	
20	Description
21	Indicates whether the character at the specified position in a specified
22	String is categorized as a decimal digit.
23	Return Value: true if the character at position index in s is a decimal digit;
24	otherwise, false.
25	

1	Character positions in a String are indexed starting from zero. A
2	System.String . A 32-bit signed integer that specifies a character position in s .
3	IsLetter
4	
5	[C#] public static bool IsLetter(char c);
6	[C++] public: static bool IsLetter(_wchar_t c);
7	[VB] Public Shared Function IsLetter(ByVal c As Char) As Boolean
8	[JScript] public static function IsLetter(c : Char) : Boolean; Indicates whether a
9	Unicode character is categorized as an alphabetic letter.
10	
11	Description
12	Indicates whether the specified Unicode character is categorized as an
13	alphabetic letter.
14	Return Value: $true$ if c is an alphabetic letter; otherwise, $false$.
15	Valid letters are members of the following categories in
16	System.Globalization.UnicodeCategory: UppercaseLetter, LowercaseLetter,
17	TitlecaseLetter, ModifierLetter, and OtherLetter. A Unicode character.
18	IsLetter
19	
20	[C#] public static bool IsLetter(string s, int index);
21	[C++] public: static bool IsLetter(String* s, int index);
22	[VB] Public Shared Function IsLetter(ByVal s As String, ByVal index As Integer)
23	As Boolean
24	[JScript] public static function IsLetter(s : String, index : int) : Boolean;
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Description

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Indicates whether the character at the specified position in a specified **String** is categorized as an alphabetic character.

Return Value: true if the character at position index in s is an alphabetic character; otherwise, false.

Character positions in a **String** are indexed starting from zero. A **System.String**. A 32-bit signed integer that specifies a character position in s.

IsLetterOrDigit

[C#] public static bool IsLetterOrDigit(char c);

[C++] public: static bool IsLetterOrDigit(_wchar_t c);

[VB] Public Shared Function IsLetterOrDigit(ByVal c As Char) As Boolean [JScript] public static function IsLetterOrDigit(c : Char) : Boolean; Indicates whether a Unicode character is categorized as a letter or decimal digit.

Description

Indicates whether the specified Unicode character is categorized as a letter or decimal digit.

Return Value: \mathbf{true} if c is a letter or decimal digit; otherwise, \mathbf{false} . A Unicode character.

IsLetterOrDigit

[C#] public static bool IsLetterOrDigit(string s, int index);

[C++] public: static bool IsLetterOrDigit(String* s, int index);

[VB] Public Shared Function IsLetterOrDigit(ByVal s As String, ByVal index As Integer) As Boolean 2 [JScript] public static function IsLetterOrDigit(s: String, index: int): Boolean; 3 4 Description 5 Indicates whether the character at the specified position in a specified 6 String is categorized as an alphabetic character or a decimal digit. 7 Return Value: true if the character at position index in s is an alphabetic character 8 or a decimal digit; otherwise, false. 9 Character positions in a String are indexed starting from zero. A 10 System.String. A 32-bit signed integer that specifies a character position in s. 11 **IsLower** 12 13 [C#] public static bool IsLower(char c); 14 [C++] public: static bool IsLower(__wchar_t c); 15 [VB] Public Shared Function IsLower(ByVal c As Char) As Boolean 16 [JScript] public static function IsLower(c : Char) : Boolean; Indicates whether a 17 Unicode character is categorized as a lowercase letter. 18 19 Description 20 Indicates whether the specified Unicode character is categorized as a 21 lowercase letter. 22 Return Value: true if c is a lowercase letter; otherwise, false. A Unicode 23 character. 24

IsLower

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2	[C#] public static bool IsLower(string s, int index);
3	[C++] public: static bool IsLower(String* s, int index);
4	[VB] Public Shared Function IsLower(ByVal s As String, ByVal index As
5	Integer) As Boolean
6	[JScript] public static function IsLower(s : String, index : int) : Boolean;
7	
8	Description
9	Indicates whether the character at the specified position in a specified
10	String is categorized as a lowercase letter.
11	Return Value: true if the character at position index in s is a lowercase letter;
12	otherwise, false.
13	Character positions in a String are indexed starting from zero. A
14	System.String . A 32-bit signed integer that specifies a character position in s.
15	IsNumber
16	
17	[C#] public static bool IsNumber(char c);
18	[C++] public: static bool IsNumber(wchar_t c);
19	[VB] Public Shared Function IsNumber(ByVal c As Char) As Boolean
20	[JScript] public static function IsNumber(c : Char) : Boolean; Indicates whether a
21	Unicode character is categorized as a decimal digit or hexadecimal number.
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23	Description
24	Indicates whether the specified Unicode character is categorized as a
25	decimal digit or hexadecimal number.

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Return Value: true if c is a decimal digit or hexadecimal number; otherwise, false . A Unicode character. IsNumber [C#] public static bool IsNumber(string s, int index); [C++] public: static bool IsNumber(String* s, int index); [VB] Public Shared Function IsNumber(ByVal s As String, ByVal index As Integer) As Boolean [JScript] public static function IsNumber(s: String, index: int): Boolean; Description Indicates whether the character at the specified position in a specified String is categorized as a decimal digit or hexadecimal number. Return Value: true if the character at position index in s is a decimal digit or hexadecimal number; otherwise, false. Character positions in a String are indexed starting from zero. A System.String. A 32-bit signed integer that specifies a character position in s. **IsPunctuation** [C#] public static bool IsPunctuation(char c); [C++] public: static bool IsPunctuation(_wchar_t c); [VB] Public Shared Function IsPunctuation(ByVal c As Char) As Boolean [JScript] public static function IsPunctuation(c : Char) : Boolean; Indicates

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whether a Unicode character is categorized as a punctuation mark.

Description

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Indicates whether the specified Unicode character is categorized as a punctuation mark.

Return Value: \mathbf{true} if c is a punctuation mark; otherwise, \mathbf{false} . A Unicode character.

IsPunctuation

[C#] public static bool IsPunctuation(string s, int index);

[C++] public: static bool IsPunctuation(String* s, int index);

[VB] Public Shared Function IsPunctuation(ByVal s As String, ByVal index As Integer) As Boolean

[JScript] public static function IsPunctuation(s : String, index : int) : Boolean;

Description

Indicates whether the character at the specified position in a specified **String** is categorized as a punctuation mark.

Return Value: true if the character at position index in s is a punctuation mark; otherwise, false.

Character positions in a **String** are indexed starting from zero. A **System.String**. A 32-bit signed integer that specifies a character position in s.

IsSeparator

[C#] public static bool IsSeparator(char c);

[C++] public: static bool IsSeparator(_wchar_t c);

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[VB] Public Shared Function IsSeparator(ByVal c As Char) As Boolean [JScript] public static function IsSeparator(c : Char) : Boolean; Indicates whether a Unicode character is categorized as a separator character. Description Indicates whether the specified Unicode character is categorized as a separator character. Return Value: true if c is a separator character; otherwise, false. A Unicode character. **IsSeparator** [C#] public static bool IsSeparator(string s, int index); [C++] public: static bool IsSeparator(String* s, int index); [VB] Public Shared Function IsSeparator(ByVal s As String, ByVal index As Integer) As Boolean [JScript] public static function IsSeparator(s : String, index : int) : Boolean; Description Indicates whether the character at the specified position in a specified String is categorized as a separator character. Return Value: true if the character at position index in s is a separator character; otherwise, false.

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Character positions in a **String** are indexed starting from zero. A **System.String**. A 32-bit signed integer that specifies a character position in s.

IsSurrogate

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[C#] public static bool IsSurrogate(char c);
[C++] public: static bool IsSurrogate(_wchar_t c);
[VB] Public Shared Function IsSurrogate(ByVal c As Char) As Boolean
[JScript] public static function IsSurrogate(c : Char) : Boolean; Indicates whether
a Unicode character is categorized as a surrogate character.
Description
Indicates whether the specified Unicode character is categorized as a
surrogate character.
Return Value: true if c is a surrogate character; otherwise, false.
For more information about surrogate pairs, see the Unicode Standard at
http://www.unicode.org. A Unicode character.
IsSurrogate
[C#] public static bool IsSurrogate(string s, int index);

[C++] public: static bool IsSurrogate(String* s, int index);

[VB] Public Shared Function IsSurrogate(ByVal s As String, ByVal index As Integer) As Boolean

[JScript] public static function IsSurrogate(s : String, index : int) : Boolean;

Description

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Indicates whether the character at the specified position in a specified String is categorized as a surrogate character.

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Return Value: true if the character at position index in s is a surrogate character; otherwise, false. Character positions in a String are indexed starting from zero. A System.String. A 32-bit signed integer that specifies a character position in s. **IsSymbol** [C#] public static bool IsSymbol(char c); [C++] public: static bool IsSymbol(_wchar_t c); [VB] Public Shared Function IsSymbol(ByVal c As Char) As Boolean [JScript] public static function IsSymbol(c : Char) : Boolean; Indicates whether a Unicode character is categorized as a symbol character. Description Indicates whether the specified Unicode character is categorized as a symbol character. Return Value: true if c is a symbol character; otherwise, false. Valid symbols are members of the following categories in $System. Globalization. Unicode Category: Math Symbol\ ,\ Currency Symbol\ ,$ ModifierSymbol, and OtherSymbol. A Unicode character.

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IsSymbol

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[C#] public static bool IsSymbol(string s, int index);

[C++] public: static bool IsSymbol(String* s, int index);

[VB] Public Shared Function IsSymbol(ByVal s As String, ByVal index As

Integer) As Boolean

[JScript] public static function IsSymbol(s: String, index: int): Boolean; 2 Description 3 Indicates whether the character at the specified position in a specified 4 String is categorized as a symbol character. 5 Return Value: true if the character at position index in s is a symbol character; 6 otherwise, false. 7 Character positions in a String are indexed starting from zero. A 8 System.String. A 32-bit signed integer that specifies a character position in s. 9 IsUpper 10 11 [C#] public static bool IsUpper(char c); 12 [C++] public: static bool IsUpper(_wchar_t c); 13 [VB] Public Shared Function IsUpper(ByVal c As Char) As Boolean 14 [JScript] public static function IsUpper(c : Char) : Boolean; Indicates whether a 15 Unicode character is categorized as an uppercase letter. 16 17 Description 18 Indicates whether the specified Unicode character is categorized as an 19 uppercase letter. 20 Return Value: true if c is an uppercase letter; otherwise, false. A Unicode 21 character. 22 IsUpper 23 24 [C#] public static bool IsUpper(string s, int index);

[C++] public: static bool IsUpper(String* s, int index); [VB] Public Shared Function IsUpper(ByVal s As String, ByVal index As Integer) As Boolean [JScript] public static function IsUpper(s : String, index : int) : Boolean;
As Boolean [JScript] public static function IsUpper(s : String, index : int) : Boolean;
[JScript] public static function IsUpper(s : String, index : int) : Boolean;
Description
Description
Description
Indicates whether the character at the specified position in a specified
String is categorized as an uppercase letter.
Return Value: true if the character at position index in s is an uppercase letter;
otherwise, false.
Character positions in a String are indexed starting from zero. A
System.String. A 32-bit signed integer that specifies a character position in s .
IsWhiteSpace
[C#] public static bool IsWhiteSpace(char c);
[C++] public: static bool IsWhiteSpace(wchar_t c);
[VB] Public Shared Function IsWhiteSpace(ByVal c As Char) As Boolean
[JScript] public static function IsWhiteSpace(c : Char) : Boolean; Indicates
whether a Unicode character is categorized as white space.
Description
Indicates whether the specified Unicode character is categorized as white
space.
space. Return Value: \mathbf{true} if c is white space; otherwise, \mathbf{false} .

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Valid white space characters are members of the **SpaceSeparator** category in **System.Globalization.UnicodeCategory**, as well as these Unicode characters: hexadecimal 0x0009, 0x000a, 0x000b, 0x000c, 0x000d, 0x0085, 0x2028, and 0x2029. A Unicode character.

IsWhiteSpace

[C#] public static bool IsWhiteSpace(string s, int index);

[C++] public: static bool IsWhiteSpace(String* s, int index);

[VB] Public Shared Function IsWhiteSpace(ByVal s As String, ByVal index As Integer) As Boolean

[JScript] public static function IsWhiteSpace(s: String, index: int): Boolean;

Description

Indicates whether the character at the specified position in a specified **String** is categorized as white space.

Return Value: true if the character at position index in s is white space; otherwise, false.

Character positions in a **String** are indexed starting from zero. A **System.String**. A 32-bit signed integer that specifies a character position in s.

Parse

[C#] public static char Parse(string s);

[C++] public: static __wchar_t Parse(String* s);

[VB] Public Shared Function Parse(ByVal s As String) As Char

[JScript] public static function Parse(s : String) : Char;

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2	Description
3	Converts the value of the specified String to its equivalent Unicode
4	character.
5	Return Value: A Unicode character equivalent to the sole character in s. A
6	System.String containing a single character or null.
7	IConvertible.ToBoolean
8	
9	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
10	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
11	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
12	Implements IConvertible.ToBoolean
13	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
14	IConvertible.ToByte
15	
16	[C#] byte IConvertible.ToByte(IFormatProvider provider);
17	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
18	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
19	IConvertible.ToByte
20	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
21	IConvertible.ToChar
22	
23	[C#] char IConvertible.ToChar(IFormatProvider provider);
24	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
25	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements

1	IConvertible.ToChar
2	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
3	IConvertible.ToDateTime
4	
5	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
6	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
7	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
8	Implements IConvertible.ToDateTime
9	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
10	DateTime;
11	IConvertible.ToDecimal
12	
13	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
14	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
15	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
16	Implements IConvertible.ToDecimal
17	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
18	IConvertible.ToDouble
19	
20	[C#] double IConvertible.ToDouble(IFormatProvider provider);
21	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
22	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
23	Implements IConvertible.ToDouble
24	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
25	IConvertible.ToInt16

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1	
2	[C#] short IConvertible.ToInt16(IFormatProvider provider);
3	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
4	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
5	Implements IConvertible.ToInt16
6	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
7	IConvertible.ToInt32
8	
9	[C#] int IConvertible.ToInt32(IFormatProvider provider);
10	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
11	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
12	Implements IConvertible.ToInt32
13	[JScript] function IConvertible.ToInt32(provider: IFormatProvider): int;
14	IConvertible.ToInt64
15	
16	[C#] long IConvertible.ToInt64(IFormatProvider provider);
17	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
18	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
19	IConvertible.ToInt64
20	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
21	IConvertible.ToSByte
22	
23	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
24	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
25	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
	••

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1	Implements IConvertible.ToSByte
2	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
3	IConvertible.ToSingle
4	
5	[C#] float IConvertible.ToSingle(IFormatProvider provider);
6	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
7	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
8	Implements IConvertible.ToSingle
9	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
10	IConvertible.ToType
11	
12	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
13	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
14	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
15	As Object Implements IConvertible.ToType
16	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
17	Object;
18	IConvertible.ToUInt16
19	
20	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
21	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
22	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
23	Implements IConvertible.ToUInt16
24	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
25	IConvertible.ToUInt32

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2	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
3	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
4	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
5	Implements IConvertible.ToUInt32
6	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
7	IConvertible.ToUInt64
8	
9	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
10	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
11	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
12	Implements IConvertible.ToUInt64
13	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
14	ToLower
15	
16	[C#] public static char ToLower(char c);
17	[C++] public: staticwchar_t ToLower(wchar_t c);
18	[VB] Public Shared Function ToLower(ByVal c As Char) As Char
19	[JScript] public static function ToLower(c : Char) : Char;
20	
21	Description
22	Converts the value of a specified Unicode character to its lowercase
23	equivalent using specified culture-specific formatting information.
24	Return Value: The lowercase equivalent of c .

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Formatting information is obtained from the current culture. A Unicode character.

ToLower

[C#] public static char ToLower(char c, CultureInfo culture);

[C++] public: static __wchar_t ToLower(__wchar_t c, CultureInfo* culture);

[VB] Public Shared Function ToLower(ByVal c As Char, ByVal culture As

CultureInfo) As Char

[JScript] public static function ToLower(c : Char, culture : CultureInfo) : Char;

Converts the value of a Unicode character to its lowercase equivalent.

Description

Converts the value of a specified Unicode character to its lowercase equivalent using specified culture-specific formatting information.

Return Value: The lowercase equivalent of c , formatted according to culture.

Use **System.String.ToLower** to convert a string to lowercase. A Unicode character. A **System.Globalization.CultureInfo** object that supplies culture-specific formatting information, or **null**.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the value of this instance to its equivalent **String** representation.

Description 2 Converts the value of this instance to its equivalent String representation. 3 Return Value: The System.String representation of the value of this instance. **ToString** 5 6 [C#] public static string ToString(char c); 7 [C++] public: static String* ToString(_wchar_t c); 8 [VB] Public Shared Function ToString(ByVal c As Char) As String 9 [JScript] public static function ToString(c : Char) : String; 10 11 Description 12 Converts the specified Unicode character to its equivalent String 13 representation. 14 Return Value: The System.String representation of the value of c. A Unicode 15 character. 16 **ToString** 17 18 [C#] public string ToString(IFormatProvider provider); 19 [C++] public: __sealed String* ToString(IFormatProvider* provider); 20 [VB] NotOverridable Public Function ToString(ByVal provider As IFormatProvider) As String 22 [JScript] public function ToString(provider : IFormatProvider) : String; 23 24 Description

1	Converts the value of this instance to its equivalent String representation
2	using the specified culture-specific format information.
3	Return Value: The System.String representation of the value of this instance as
4	specified by <i>provider</i> .
5	provider is ignored; it does not participate in this operation. (Reserved) An
6	System.IFormatProvider interface implementation that supplies culture-specific
7	formatting information.
8	ToUpper
9	
10	[C#] public static char ToUpper(char c);
11	[C++] public: staticwchar_t ToUpper(wchar_t c);
12	[VB] Public Shared Function ToUpper(ByVal c As Char) As Char
13	[JScript] public static function ToUpper(c : Char) : Char;
14	
15	Description
16	Converts the value of a specified Unicode character to its uppercase
17	equivalent using specified culture-specific formatting information.
18	Return Value: The uppercase equivalent of c .
19	Formatting information is obtained from the current culture. A Unicode
20	character.
21	ToUpper
22	
23	[C#] public static char ToUpper(char c, CultureInfo culture);
24	[C++] public: staticwchar_t ToUpper(wchar_t c, CultureInfo* culture);
50.5	[VB] Public Shared Function Tol Inner(ByVal c As Char, ByVal culture As

CultureInfo) As Char

[JScript] public static function ToUpper(c : Char, culture : CultureInfo) : Char; Converts the value of a Unicode character to its uppercase equivalent.

Description

Converts the value of a specified Unicode character to its uppercase equivalent using specified culture-specific formatting information.

Return Value: The uppercase equivalent of c, formatted according to culture.

Use **System.String.ToUpper** to convert a string to uppercase. A Unicode character. A **System.Globalization.CultureInfo** object that supplies culture-specific formatting information, or **null**.

CharEnumerator class (System)

ToUpper

Description

Supports iterating over a **System.String** and reading its individual characters.

A System.CharEnumerator provides read-only access to the characters in a referenced System.String object. For example, the foreach statement of the Microsoft Visual Basic and C# programming languages, which iterates through the elements of a collection, retrieves a System.CharEnumerator from an instance of System.String in order to iterate through the characters in that instance.

Current

1	ToUpper
2	
3	[C#] public char Current {get;}
4	[C++] public:propertywchar_t get_Current();
5	[VB] Public ReadOnly Property Current As Char
6	[JScript] public function get Current() : Char;
7	
8	Description
9	Gets the character in the enumerated string currently indexed by this
10	instance.
11	This property should only be invoked when the index maintained by this
12	instance is valid, otherwise, an exception is thrown. The index is always invalid
13	for an empty string ("").
14	Clone
15	
16	[C#] public object Clone();
17	[C++] public:sealed Object* Clone();
18	[VB] NotOverridable Public Function Clone() As Object
19	[JScript] public function Clone() : Object;
20	
21	Description
22	Creates a copy of this instance.
23	Return Value: An System.Object that is a copy of this instance.
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The return value is a copy of this instance of **System.CharEnumerator** and its current state. This is useful for saving your state while iterating through a **System.String** object.

MoveNext

[C#] public bool MoveNext();

[C++] public: __sealed bool MoveNext();

[VB] NotOverridable Public Function MoveNext() As Boolean

[JScript] public function MoveNext(): Boolean;

Description

Increments the index to the next character of the enumerated string.

Return Value: true if the index is successfully incremented and within the enumerated string; otherwise, false.

The **System.CharEnumerator.MoveNext** method increments the index by one. Call **System.CharEnumerator.MoveNext** after calling

System.String.GetEnumerator or System.CharEnumerator.Reset to increment the current character position to the first character in the enumerated string. Check that the return value is **true** to determine that the current character position is valid.

Reset

[C#] public void Reset();

[C++] public: __sealed void Reset();

[VB] NotOverridable Public Sub Reset()

1	[JScript] public function Reset();
2	
3	Description
4	Initializes the index to a position logically before the first character of the
5	enumerated string.
6	The index is set to the invalid state.
7	CLSCompliantAttribute class (System)
8	ToString
9	
10	
11	Description
12	Indicates whether a program element is compliant with the Common
13	Language Specification (CLS). This class cannot be inherited.
14	If no System.CLSCompliantAttribute is applied to a program element, by
15	default: The assembly is not CLS-compliant.
16	CLSCompliantAttribute
17	Example Syntax:
18	ToString
19	
20	[C#] public CLSCompliantAttribute(bool isCompliant);
21	[C++] public: CLSCompliantAttribute(bool isCompliant);
22	[VB] Public Sub New(ByVal isCompliant As Boolean)
23	[JScript] public function CLSCompliantAttribute(isCompliant : Boolean);
24	
25	Description

1	Initializes an instance of the System.CLSCompliantAttribute class with a
2	Boolean value indicating whether the indicated program element is CLS-
3	compliant. true if CLS-compliant; otherwise, false.
4	IsCompliant
5	ToString
6	
7	[C#] public bool IsCompliant {get;}
8	[C++] public:property bool get_IsCompliant();
9	[VB] Public ReadOnly Property IsCompliant As Boolean
10	[JScript] public function get IsCompliant(): Boolean;
11	
12	Description
13	Gets the Boolean value indicating whether the indicated program element is
14	CLS-compliant.
15	TypeId
16	Console class (System)
17	ToString
18	
19	
20	Description
21	Represents the standard input, output, and error streams for console
22	applications.
23	The System.Console class provides basic support for applications that read
24	characters from, and write characters to, the console. If the console does not exist,

as in a Windows-based application, writes to the console are not displayed and no exception is raised. 2 Error 3 **ToString** 5 [C#] public static TextWriter Error {get;} 6 [C++] public: __property static TextWriter* get_Error(); 7 [VB] Public Shared ReadOnly Property Error As TextWriter 8 [JScript] public static function get Error(): TextWriter; 9 10 Description 11 Gets the standard error output stream. 12 This property is set to the standard error stream by default. This property 13 can be set to another stream with the 14 ${\bf System. Console. Set Error (System. IO. Text Writer)}\ method.$ 15 In 16 **ToString** 17 18 [C#] public static TextReader In {get;} 19 [C++] public: property static TextReader* get_In(); 20 [VB] Public Shared ReadOnly Property In As TextReader 21 [JScript] public static function get In(): TextReader; 22 23 Description 24 Gets the standard input stream. 25

This property is set to the standard input stream by default. This property 1 can be set to another stream with the 2 $System. Console. Set In (System. IO. Text Reader) \ {\it method}.$ 3 Out **ToString** 5 6 [C#] public static TextWriter Out {get;} 7 [C++] public: __property static TextWriter* get_Out(); 8 [VB] Public Shared ReadOnly Property Out As TextWriter 9 [JScript] public static function get Out(): TextWriter; 10 11 Description 12 Gets the standard output stream. 13 This property is set to the standard output stream by default. This property 14 can be set to another stream with the 15 ${\bf System. Console. Set Out (System. IO. Text Writer)}\ {\bf method.}$ 16 OpenStandardError 17 18 [C#] public static Stream OpenStandardError(); 19 [C++] public: static Stream* OpenStandardError(); 20 [VB] Public Shared Function OpenStandardError() As Stream 21 [JScript] public static function OpenStandardError(): Stream; Acquires the 22 standard error stream. 23 24 Description

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Acquires the standard error stream. Return Value: A System.IO.TextWriter object that represents the standard error stream. This method can be used to reacquire the standard error stream after it has been changed by the System.Console.SetError(System.IO.TextWriter) method. OpenStandardError [C#] public static Stream OpenStandardError(int bufferSize); [C++] public: static Stream* OpenStandardError(int bufferSize); [VB] Public Shared Function OpenStandardError(ByVal bufferSize As Integer) As Stream [JScript] public static function OpenStandardError(bufferSize : int) : Stream; Description Acquires the standard error stream, set to a specified buffer size. Return Value: A System.IO.TextWriter object that represents the standard error stream. This method can be used to reacquire the standard error stream after it has been changed by the System.Console.SetError(System.IO.TextWriter) method. The internal stream buffer size. OpenStandardInput [C#] public static Stream OpenStandardInput(); [C++] public: static Stream* OpenStandardInput();

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[VB] Public Shared Function OpenStandardInput() As Stream

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[JScript] public static function OpenStandardInput(): Stream; Acquires the standard input stream. Description Acquires the standard input stream. Return Value: A System.IO.TextReader object that represents the standard input stream. This method can be used to reacquire the standard input stream after it has been changed by the ${\bf System.Console.SetIn}({\bf System.IO.TextReader})$ method. OpenStandardInput [C#] public static Stream OpenStandardInput(int bufferSize); [C++] public: static Stream* OpenStandardInput(int bufferSize); [VB] Public Shared Function OpenStandardInput(ByVal bufferSize As Integer) As Stream [JScript] public static function OpenStandardInput(bufferSize : int) : Stream; Description -Acquires the standard input stream, set to a specified buffer size. Return Value: A System.IO.TextReader object that represents the standard output stream. This method can be used to reacquire the standard output stream after it has been changed by the ${\bf System. Console. Set In}({\bf System. IO. Text Reader})$ method. The internal stream buffer size.

OpenStandardOutput

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1	
2	[C#] public static Stream OpenStandardOutput();
3	[C++] public: static Stream* OpenStandardOutput();
4	[VB] Public Shared Function OpenStandardOutput() As Stream
5	[JScript] public static function OpenStandardOutput(): Stream; Acquires the
6	standard output stream.
7	
8	Description
9	Acquires the standard output stream.
10	Return Value: A System.IO.TextWriter object that represents the standard output
11	stream.
12	This method can be used to reacquire the standard output stream after it has
13	been changed by the System.Console.SetOut(System.IO.TextWriter) method.
14	OpenStandardOutput
15	
16	[C#] public static Stream OpenStandardOutput(int bufferSize);
17	[C++] public: static Stream* OpenStandardOutput(int bufferSize);
18	[VB] Public Shared Function OpenStandardOutput(ByVal bufferSize As Integer)
19	As Stream
20	[JScript] public static function OpenStandardOutput(bufferSize: int): Stream;
21	
22	Description
23	Acquires the standard output stream, set to a specified buffer size.
24	Return Value: A System.IO.TextWriter object that represents the standard output
25	stream.

This method can be used to reacquire the standard output stream after it has been changed by the **System.Console.SetOut(System.IO.TextWriter)** method.

The internal stream buffer size.

Read

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[C#] public static int Read();

[C++] public: static int Read();

[VB] Public Shared Function Read() As Integer

[JScript] public static function Read(): int;

Description

Reads the next character from the standard input stream.

Return Value: The next character from the input stream, or negative one if no more characters are available.

This method will not return until the read operation is terminated (for example, by the user pressing the enter key). If data is available, the input stream contains what the user entered, suffixed with a carriage-return character followed by a linefeed character ("\r\n").

ReadLine

[C#] public static string ReadLine();

[C++] public: static String* ReadLine();

[VB] Public Shared Function ReadLine() As String

[JScript] public static function ReadLine(): String;

Description

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Reads the next line of characters from the standard input stream.

Return Value: The next line from the input stream, or **null** if no more characters are available.

A line is defined as a sequence of characters followed by a carriage return ('\r'), a line feed ('\n'), or a carriage return immediately followed by a line feed ('\r\n'). The string that is returned does not contain the terminating carriage return and/or line feed.

SetError

[C#] public static void SetError(TextWriter newError);

[C++] public: static void SetError(TextWriter* newError);

[VB] Public Shared Sub SetError(ByVal newError As TextWriter)

[JScript] public static function SetError(newError : TextWriter);

Description

Sets the System.Console.Error property to the specified output stream.

By default, the **System.Console.Error** property is set to the standard error output stream. A **System.IO.TextWriter** stream that is the new standard error output.

SetIn

[C#] public static void SetIn(TextReader newIn);

[C++] public: static void SetIn(TextReader* newIn);

1	[VB] Public Shared Sub SetIn(ByVal newIn As TextReader)
2	[JScript] public static function SetIn(newIn : TextReader);
3	
4	Description
5	Sets the System.Console.In property to the specified input stream.
6	By default, the System.Console.In property is set to the standard input
7	stream. A System.IO.TextReader stream that is the new standard input.
8	SetOut
9	
10	[C#] public static void SetOut(TextWriter newOut);
11	[C++] public: static void SetOut(TextWriter* newOut);
12	[VB] Public Shared Sub SetOut(ByVal newOut As TextWriter)
13	[JScript] public static function SetOut(newOut : TextWriter);
14	
15	Description
16	Sets the System.Console.Out property to the specified output stream.
17	By default, the System.Console.Out property is set to the standard output
18	stream. A System.IO.TextWriter stream that is the new standard output.
19	Write
20	
21	[C#] public static void Write(bool value);
22	[C++] public: static void Write(bool value);
23	[VB] Public Shared Sub Write(ByVal value As Boolean)
24	[JScript] public static function Write(value : Boolean);
25	; ∭

Description Writes the text representation of the specified Boolean value to the standard 3 output stream. 4 The text representation of value is produced by calling ${\bf System. Boolean. To String}$. The value to write. Write 7 8 [C#] public static void Write(char value); 9 [C++] public: static void Write(__wchar_t value); 10 [VB] Public Shared Sub Write(ByVal value As Char) 11 [JScript] public static function Write(value : Char); 13 Description 14 Writes the specified Unicode character value to the standard output stream. 15 The value to write. Write 17 18 [C#] public static void Write(char[] buffer); 19 [C++] public: static void Write(_wchar_t buffer __gc[]); 20 [VB] Public Shared Sub Write(ByVal buffer() As Char) 21 [JScript] public static function Write(buffer : Char[]); 22 23 Description 24 25

Writes the specified array of Unicode characters to the standard output 1 stream. A Unicode character array. 2 Write 3 [C#] public static void Write(decimal value); 5 [C++] public: static void Write(Decimal value); 6 [VB] Public Shared Sub Write(ByVal value As Decimal) 7 [JScript] public static function Write(value : Decimal); 8 9 Description 10 Writes the text representation of the specified System.Decimal value to the 11 standard output stream. 12 The text representation of value is produced by calling 13 System.Decimal.ToString . The value to write. 14 Write 15 16 [C#] public static void Write(double value); 17 [C++] public: static void Write(double value); 18 [VB] Public Shared Sub Write(ByVal value As Double) 19 [JScript] public static function Write(value : double); 20 21 Description 22 Writes the text representation of the specified double-precision floating 23 point value to the standard output stream.

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1	The text representation of value is produced by calling
2	System.Double.ToString. The value to write.
3	Write
4	
5	[C#] public static void Write(int value);
6	[C++] public: static void Write(int value);
7	[VB] Public Shared Sub Write(ByVal value As Integer)
8	[JScript] public static function Write(value : int);
9	
10	Description
11	Writes the text representation of the specified 32-bit signed integer value to
12	the standard output stream.
13	The text representation of <i>value</i> is produced by calling
14	System.Int32.ToString. The value to write.
15	Write
16	
17	[C#] public static void Write(long value);
18	[C++] public: static void Write(int64 value);
19	[VB] Public Shared Sub Write(ByVal value As Long)
20	[JScript] public static function Write(value : long);
21	
22	Description
23	Writes the text representation of the specified 64-bit signed integer value to
24	the standard output stream.
25	

The text representation of *value* is produced by calling 1 **System.Int64.ToString**. The value to write. 2 Write 3 4 [C#] public static void Write(object value); 5 [C++] public: static void Write(Object* value); 6 [VB] Public Shared Sub Write(ByVal value As Object) 7 [JScript] public static function Write(value : Object); 9 Description 10 Writes the text representation of the specified object to the standard output 11 stream. 12 If value is **null**, nothing is written and no exception is thrown. Otherwise, 13 the **ToString** method of value is called to produce its string representation, and the 14 resulting string is written to the standard output stream. The value to write. 15 Write 16 17 [C#] public static void Write(float value); 18 [C++] public: static void Write(float value); 19 [VB] Public Shared Sub Write(ByVal value As Single) 20 [JScript] public static function Write(value : float); 21 22 Description 23 Writes the text representation of the specified single-precision floating 24

point value to the standard output stream.

1	The text representation of value is produced by calling
2	System.Single.ToString. The value to write.
3	Write
4	
5	[C#] public static void Write(string value);
6	[C++] public: static void Write(String* value);
7	[VB] Public Shared Sub Write(ByVal value As String)
8	[JScript] public static function Write(value : String);
9	
10	Description
11	Writes the specified string value to the standard output stream.
12	If value is null , nothing is written to the standard output stream. The value
13	to write.
14	Write
15	
16	[C#] public static void Write(uint value);
17	[C++] public: static void Write(unsigned int value);
18	[VB] Public Shared Sub Write(ByVal value As UInt32)
19	[JScript] public static function Write(value : UInt32);
20	
21	Description
22	Writes the text representation of the specified 32-bit unsigned integer value
23	to the standard output stream.
24	The text representation of <i>value</i> is produced by calling
25	System.UInt32.ToString. The value to write.

1	Write
2	
3	[C#] public static void Write(ulong value);
4	[C++] public: static void Write(unsignedint64 value);
5	[VB] Public Shared Sub Write(ByVal value As UInt64)
6	[JScript] public static function Write(value : UInt64);
7	
8	Description
9	Writes the text representation of the specified 64-bit unsigned integer value
10	to the standard output stream.
11	The text representation of value is produced by calling
12	System.UInt64.ToString. The value to write.
13	Write
14	
15	[C#] public static void Write(string format, object arg0);
16	[C++] public: static void Write(String* format, Object* arg0);
17	[VB] Public Shared Sub Write(ByVal format As String, ByVal arg0 As Object)
18	[JScript] public static function Write(format : String, arg0 : Object); Writes the
19	specified information to the standard output stream.
20	
21	Description
22	Writes the specified object to the standard output stream using the specified
23	format information.
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This method uses the same semantics as System.String.Format(System.String,System.Object) . Format string. Object to write using format. Write [C#] public static void Write(string format, params object[] arg); [C++] public: static void Write(String* format, Object* arg __gc[]); [VB] Public Shared Sub Write(ByVal format As String, ByVal ParamArray arg() As Object) [JScript] public static function Write(format : String, arg : Object[]); Description Writes the specified array of objects to the standard output stream using the specified format information. This method uses the same semantics as ${\bf System.String.Format} ({\bf System.String,System.Object}) \ . \ Format \ string. \ An \ array$ of objects to write using format. Write [C#] public static void Write(char[] buffer, int index, int count); [C++] public: static void Write(_wchar_t buffer __gc[], int index, int count); [VB] Public Shared Sub Write(ByVal buffer() As Char, ByVal index As Integer, ByVal count As Integer) [JScript] public static function Write(buffer : Char[], index : int, count : int);

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Writes the specified subarray of Unicode characters to the standard output stream.

This method writes *count* characters starting at position *index* of *buffer* to the standard output stream. An array of Unicode characters. The starting position in *buffer*. The number of characters to write.

Write

[C#] public static void Write(string format, object arg0, object arg1);

[C++] public: static void Write(String* format, Object* arg0, Object* arg1);

[VB] Public Shared Sub Write(ByVal format As String, ByVal arg0 As Object,

ByVal arg1 As Object)

[JScript] public static function Write(format : String, arg0 : Object, arg1 : Object);

Description

Writes the specified objects to the standard output stream using the specified format information.

This method uses the same semantics as System.String.Format(System.String,System.Object). Format string. First object to write using *format*. Second object to write using *format*.

Write

[C#] public static void Write(string format, object arg0, object arg1, object arg2); [C++] public: static void Write(String* format, Object* arg0, Object* arg1,

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1	Object* arg2);
2	[VB] Public Shared Sub Write(ByVal format As String, ByVal arg0 As Object,
3	ByVal arg1 As Object, ByVal arg2 As Object)
4	[JScript] public static function Write(format : String, arg0 : Object, arg1 : Object,
5	arg2 : Object);
6	
7	Description
8	Writes the specified objects to the standard output stream using the
9	specified format information.
10	This method uses the same semantics as
11	System.String.Format(System.String,System.Object) . Format string. First
12	object to write using format. Second object to write using format. Third object to
13	write using format.
14	Write
15	
16	[C++] public: static void Write(String* format, Object* arg0, Object* arg1,
17	Object* arg2, Object* arg3,);
18	WriteLine
19	
20	[C#] public static void WriteLine();
21	[C++] public: static void WriteLine();
22	[VB] Public Shared Sub WriteLine()
23	[JScript] public static function WriteLine(); Writes the specified data, followed by
24	the current line terminator, to the standard output stream.
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Writes the current line terminator to the standard output stream.

The default line terminator is a string whose value is a carriage return followed by a line feed ("\r\n"). Change the line terminator by setting the **System.IO.TextWriter.NewLine** property of the **System.Console.Out** property to another string.

WriteLine

[C#] public static void WriteLine(bool value);

[C++] public: static void WriteLine(bool value);

[VB] Public Shared Sub WriteLine(ByVal value As Boolean)

[JScript] public static function WriteLine(value : Boolean);

Description

Writes the text representation of the specified Boolean value, followed by the current line terminator, to the standard output stream.

The text representation of *value* is produced by calling **System.Boolean.ToString** . The value to write.

WriteLine

[C#] public static void WriteLine(char value);

[C++] public: static void WriteLine(__wchar_t value);

[VB] Public Shared Sub WriteLine(ByVal value As Char)

[JScript] public static function WriteLine(value : Char);

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Writes the specified Unicode character, followed by the current line terminator, value to the standard output stream.

For more information about the line terminator, see the Remarks section of the **System.Console.WriteLine** method that takes no parameters. The value to write.

WriteLine

[C#] public static void WriteLine(char[] buffer);

[C++] public: static void WriteLine(__wchar_t buffer __gc[]);

[VB] Public Shared Sub WriteLine(ByVal buffer() As Char)

[JScript] public static function WriteLine(buffer : Char[]);

Description

Writes the specified array of Unicode characters, followed by the current line terminator, to the standard output stream.

For more information about the line terminator, see the Remarks section of the **System.Console.WriteLine** method that takes no parameters. A Unicode character array.

WriteLine

[C#] public static void WriteLine(decimal value);

[C++] public: static void WriteLine(Decimal value);

[VB] Public Shared Sub WriteLine(ByVal value As Decimal)

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1	[JScript] public static function WriteLine(value : Decimal);
2	
3	Description
4	Writes the text representation of the specified System.Decimal value,
5	followed by the current line terminator, to the standard output stream.
6	The text representation of value is produced by calling
7	System.Decimal.ToString. The value to write.
8	WriteLine
9	
10	[C#] public static void WriteLine(double value);
- 11	[C++] public: static void WriteLine(double value);
12	[VB] Public Shared Sub WriteLine(ByVal value As Double)
13	[JScript] public static function WriteLine(value : double);
14	
15	Description
16	Writes the text representation of the specified double-precision floating
17	point value, followed by the current line terminator, to the standard output stream.
18	The text representation of value is produced by calling
19	System.Double.ToString . The value to write.
20	WriteLine
21	
22	[C#] public static void WriteLine(int value);
23	[C++] public: static void WriteLine(int value);
24	[VB] Public Shared Sub WriteLine(ByVal value As Integer)
25	[JScript] public static function WriteLine(value : int);

2	Description
3	Writes the text representation of the specified 32-bit signed integer value,
4	followed by the current line terminator, to the standard output stream.
5	The text representation of value is produced by calling
6	System.Int32.ToString. The value to write.
7	WriteLine
8	
9	[C#] public static void WriteLine(long value);
10	[C++] public: static void WriteLine(int64 value);
11	[VB] Public Shared Sub WriteLine(ByVal value As Long)
12	[JScript] public static function WriteLine(value : long);
13	
14	Description
15	Writes the text representation of the specified 64-bit signed integer value
16	followed by the current line terminator, to the standard output stream.
17	The text representation of <i>value</i> is produced by calling
18	System.Int64.ToString. The value to write.
19	WriteLine
20	
21	[C#] public static void WriteLine(object value);
22	[C++] public: static void WriteLine(Object* value);
23	[VB] Public Shared Sub WriteLine(ByVal value As Object)
24	[JScript] public static function WriteLine(value : Object);
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Writes the text representation of the specified object, followed by the current line terminator, to the standard output stream.

If value is **null**, nothing is written and no exception is thrown. Otherwise, the **ToString** method of value is called to produce its string representation, and the resulting string is written to the standard output stream. The value to write.

WriteLine

[C#] public static void WriteLine(float value);

[C++] public: static void WriteLine(float value);

[VB] Public Shared Sub WriteLine(ByVal value As Single)

[JScript] public static function WriteLine(value : float);

Description

Writes the text representation of the specified single-precision floating point value, followed by the current line terminator, to the standard output stream.

The text representation of *value* is produced by calling **System.Single.ToString** . The value to write.

WriteLine

[C#] public static void WriteLine(string value);

[C++] public: static void WriteLine(String* value);

[VB] Public Shared Sub WriteLine(ByVal value As String)

[JScript] public static function WriteLine(value : String);

Description 2 Writes the specified string value, followed by the current line terminator, to 3 the standard output stream. 4 If value is null, nothing is written to the standard output stream. The value 5 to write. 6 WriteLine 7 8 [C#] public static void WriteLine(uint value); 9 [C++] public: static void WriteLine(unsigned int value); 10 [VB] Public Shared Sub WriteLine(ByVal value As UInt32) 11 [JScript] public static function WriteLine(value : UInt32); 12 13 Description 14 Writes the text representation of the specified 32-bit unsigned integer value, 15 followed by the current line terminator, to the standard output stream. 16 The text representation of value is produced by calling 17 System.UInt32.ToString. The value to write. 18 WriteLine 19 20 [C#] public static void WriteLine(ulong value); 21 [C++] public: static void WriteLine(unsigned __int64 value); 22 [VB] Public Shared Sub WriteLine(ByVal value As UInt64) [JScript] public static function WriteLine(value : UInt64); 24

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Writes the text representation of the specified 64-bit unsigned integer value, followed by the current line terminator, to the standard output stream.

The text representation of *value* is produced by calling **System.UInt64.ToString** . The value to write.

WriteLine

[C#] public static void WriteLine(string format, object arg0);

[C++] public: static void WriteLine(String* format, Object* arg0);

[VB] Public Shared Sub WriteLine(ByVal format As String, ByVal arg0 As Object)

[JScript] public static function WriteLine(format : String, arg0 : Object);

Description

Writes the specified object, followed by the current line terminator, to the standard output stream using the specified format information.

This method uses the same semantics as System.String.Format(System.String,System.Object). Format string. Object to write using *format*.

WriteLine

[C#] public static void WriteLine(string format, params object[] arg);

[C++] public: static void WriteLine(String* format, Object* arg __gc[]);

[VB] Public Shared Sub WriteLine(ByVal format As String, ByVal ParamArray

2 3 Description 4 5 6 This method uses the same semantics as 7 8 of objects to write using format. 9 WriteLine 10 11 12 13 14 Integer, ByVal count As Integer) 15 [JScript] public static function WriteLine(buffer : Char[], index : int, count : int); 16 17 Description 18 19 20 21 22 23 WriteLine 24 25

arg() As Object) [JScript] public static function WriteLine(format : String, arg : Object[]);

Writes the specified array of objects, followed by the current line terminator, to the standard output stream using the specified format information.

 ${\bf System.String.Format} ({\bf System.String,System.Object}) \ . \ Format \ string. \ An \ array$

[C#] public static void WriteLine(char[] buffer, int index, int count); [C++] public: static void WriteLine(__wchar_t buffer __gc[], int index, int count); [VB] Public Shared Sub WriteLine(ByVal buffer() As Char, ByVal index As

Writes the specified subarray of Unicode characters, followed by the current line terminator, to the standard output stream.

This method writes count characters starting at position index of buffer to the standard output stream. An array of Unicode characters. The starting position in buffer. The number of characters to write.

[C#] public static void WriteLine(string format, object arg0, object arg1); [C++] public: static void WriteLine(String* format, Object* arg0, Object* arg1); 3 [VB] Public Shared Sub WriteLine(ByVal format As String, ByVal arg0 As 4 Object, ByVal arg1 As Object) 5 [JScript] public static function WriteLine(format : String, arg0 : Object, arg1 : 6 Object); 7 8 Description 9 Writes the specified objects, followed by the current line terminator, to the 10 standard output stream using the specified format information. 11 This method uses the same semantics as 12 System.String.Format(System.String,System.Object) . Format string. First 13 object to write using format. Second object to write using format. 14 WriteLine 15 16 [C#] public static void WriteLine(string format, object arg0, object arg1, object 17 arg2); 18 [C++] public: static void WriteLine(String* format, Object* arg0, Object* arg1, 19 Object* arg2); 20 [VB] Public Shared Sub WriteLine(ByVal format As String, ByVal arg0 As Object, ByVal arg1 As Object, ByVal arg2 As Object) 22 [JScript] public static function WriteLine(format : String, arg0 : Object, arg1 :

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Object, arg2: Object);

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Writes the specified objects, followed by the current line terminator, to the standard output stream using the specified format information.

 ${\bf System. String. Format (System. String, System. Object)} \;. \; {\bf Format \; string. \; First}$ object to write using format. Second object to write using format. Third object to write using format.

WriteLine

[C++] public: static void WriteLine(String* format, Object* arg0, Object* arg1, Object* arg2, Object* arg3, ...);

ContextBoundObject class (System)

This method uses the same semantics as

WriteLine

Description

Defines the base class for all context-bound classes.

Objects that reside in a context and are bound to the context rules are called context-bound objects. A context is a set of properties or usage rules that define an environment where a collection of objects resides. The rules are enforced when the objects are entering or leaving a context. Objects that are not context-bound are called agile objects.

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ContextBoundObject

Example Syntax:

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WriteLine

[C#] protected ContextBoundObject();

[C++] protected: ContextBoundObject();

[VB] Protected Sub New()

[JScript] protected function ContextBoundObject();

ContextMarshalException class (System)

ToString

Description

The exception that is thrown when an attempt to marshal an object across a context boundary fails.

Objects can marshal by value or by reference. Any attempt to pass an instance of an unmarshallable type through a context boundary will result in a System.ContextMarshalException.

ContextMarshalException

Example Syntax:

ToString

[C#] public ContextMarshalException();

[C++] public: ContextMarshalException();

[VB] Public Sub New()

[JScript] public function ContextMarshalException(); Initializes a new instance of the System.ContextMarshalException class.

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Initializes a new instance of the **System.ContextMarshalException** class with default properties.

The following table shows the initial property values for an instance of **System.ContextMarshalException**.

Context Marshal Exception

Example Syntax:

ToString

[C#] public ContextMarshalException(string message);

[C++] public: ContextMarshalException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function ContextMarshalException(message : String);

Description

Initializes a new instance of the **System.ContextMarshalException** class with a specified error message.

The following table shows the initial property values for an instance of **System.ContextMarshalException**. The error message that explains the reason for the exception.

Context Marshal Exception

Example Syntax:

ToString

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2	[C#] protected ContextMarshalException(SerializationInfo info,
3	StreamingContext context);
4	[C++] protected: ContextMarshalException(SerializationInfo* info,
5	StreamingContext context);
6	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
7	StreamingContext)
8	[JScript] protected function ContextMarshalException(info : SerializationInfo,
9	context : StreamingContext);
10	
11	Description
12	Initializes a new instance of the System.ContextMarshalException class
13	with serialized data. The object that holds the serialized object data. The
14	contextual information about the source or destination.
15	ContextMarshalException
16	Example Syntax:
17	ToString
18	
19	[C#] public ContextMarshalException(string message, Exception inner);
20	[C++] public: ContextMarshalException(String* message, Exception* inner);
21	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
22	[JScript] public function ContextMarshalException(message : String, inner :
23	Exception);
24	
25	Description

Initializes a new instance of the **System.ContextMarshalException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If *inner* is non-null, then the current **Exception** is raised in a catch block handling *inner*.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

ContextStaticAttribute class (System)

ToString

Description

Indicates that the value of a static field is unique for a particular context.

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1	A static field marked with System.ContextStaticAttribute is not shared
2	between contexts. If the indicated static field is accessed on a different context, it
3	will contain a different value.
4	ContextStaticAttribute
5	Example Syntax:
6	ToString
7	
8	[C#] public ContextStaticAttribute();
9	[C++] public: ContextStaticAttribute();
10	[VB] Public Sub New()
11	[JScript] public function ContextStaticAttribute();
12	
13	Description
14	Initializes a new instance of the System.ContextStaticAttribute class.
15	TypeId
16	Convert class (System)
17	ToString
18	
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20	Description
21	Converts base data types to other base data types.
22	This class returns a base type that is equivalent to the value of a specified
23	type.
24	ToString
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2	[C#] public static readonly object DBNull;
3	[C++] public: static Object* DBNull;
4	[VB] Public Shared ReadOnly DBNull As Object
5	[JScript] public static var DBNull : Object;
6	
7	Description
8	A constant representing a database column absent of data; that is, database
9	null.
10	ChangeType
11	
12	[C#] public static object ChangeType(object value, Type conversionType);
13	[C++] public: static Object* ChangeType(Object* value, Type* conversionType);
14	[VB] Public Shared Function ChangeType(ByVal value As Object, ByVal
15	conversionType As Type) As Object
16	[JScript] public static function ChangeType(value : Object, conversionType :
17	Type): Object;
18	
19	Description
20	Returns an Object with the specified Type and whose value is equivalent
21	to the specified object.
22	Return Value: An object whose Type is conversionType and whose value is
23	equivalent to value.
24	
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This method uses the current thread's culture for the conversion. An System.Object that implements the System.IConvertible interface. A System.Type.

ChangeType

[C#] public static object ChangeType(object value, TypeCode typeCode);
 [C++] public: static Object* ChangeType(Object* value, TypeCode typeCode);
 [VB] Public Shared Function ChangeType(ByVal value As Object, ByVal typeCode As TypeCode) As Object

[JScript] public static function ChangeType(value : Object, typeCode : TypeCode) : Object; Returns an **Object** with a specified type and whose value is equivalent to a specified object.

Description

Returns an **Object** with the specified **TypeCode** and whose value is equivalent to the specified object.

Return Value: An object whose underlying **TypeCode** is typeCode and whose value is equivalent to value. An **System.Object** that implements the **System.IConvertible** interface. A **System.TypeCode**

ChangeType

[C#] public static object ChangeType(object value, Type conversionType,
IFormatProvider provider);
[C++] public: static Object* ChangeType(Object* value, Type* conversionType,
IFormatProvider* provider);

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[VB] Public Shared Function Change Type (ByVal value As Object, ByVal conversionType As Type, ByVal provider As IFormatProvider) As Object [JScript] public static function ChangeType(value : Object, conversionType : Type, provider: IFormatProvider): Object; Description Returns an **Object** with the specified **Type** and whose value is equivalent to the specified object. A parameter supplies culture-specific formatting information. Return Value: An object whose **Type** is conversionType and whose value is equivalent to value. provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a String that represents a number, provider could supply culture-specific information about the notation used to represent that number. An System.Object that implements the System.IConvertible interface. A System.Type. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ChangeType

[C#] public static object ChangeType(object value, TypeCode typeCode, IFormatProvider provider);

[C++] public: static Object* ChangeType(Object* value, TypeCode typeCode, IFormatProvider* provider);

[VB] Public Shared Function ChangeType(ByVal value As Object, ByVal typeCode As TypeCode, ByVal provider As IFormatProvider) As Object

[JScript] public static function ChangeType(value : Object, typeCode : TypeCode, provider : IFormatProvider) : Object;

Description

Returns an **Object** with the specified **TypeCode** and whose value is equivalent to the specified object. A parameter supplies culture-specific formatting information.

Return Value: An object whose underlying **TypeCode** is typeCode and whose value is equivalent to value.

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a String that represents a number, provider could supply culture-specific information about the notation used to represent that number. An System.Object that implements the System.IConvertible interface. A System.TypeCode. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

FromBase64CharArray

[C#] public static byte[] FromBase64CharArray(char[] inArray, int offset, int length);
[C++] public: static unsigned char FromBase64CharArray(_wchar_t inArray __gc[], int offset, int length) __gc[];
[VB] Public Shared Function FromBase64CharArray(ByVal inArray() As Char, ByVal offset As Integer, ByVal length As Integer) As Byte()
[JScript] public static function FromBase64CharArray(inArray : Char[], offset :

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int, length : int) : Byte[];

Description

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Converts the specified subset of an array of Unicode characters consisting of base 64 digits to an equivalent array of 8-bit unsigned integers. Parameters specify the offset and number of elements in the input array.

Return Value: An array of 8-bit unsigned integers equivalent to length elements at position offset in inArray.

The subset in *inArray* is composed of base 64 digits. The base 64 digits in ascending order from zero are the uppercase characters 'A' to 'Z', lowercase characters 'a' to 'z', numerals '0' to '9', and the symbols '+' and '/'. The valueless character, '=', is used for trailing padding. A Unicode character array. A position within *inArray*. The number of elements in *inArray* to convert.

FromBase64String

[C#] public static byte[] FromBase64String(string s);

[C++] public: static unsigned char FromBase64String(String* s) __gc[];

[VB] Public Shared Function FromBase64String(ByVal s As String) As Byte()

[JScript] public static function FromBase64String(s : String) : Byte[];

Description

Converts the specified **String** representation of a value consisting of base 64 digits to an equivalent array of 8-bit unsigned integers.

Return Value: An array of 8-bit unsigned integers equivalent to s.

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s is composed of base 64 digits. The base 64 digits in ascending order from zero are the uppercase characters 'A' to 'Z', lowercase characters 'a' to 'z', numerals '0' to '9', and the symbols '+' and '/'. The valueless character, '=', is used for trailing padding. A **System.String**.

GetTypeCode

[C#] public static TypeCode GetTypeCode(object value);

[C++] public: static TypeCode GetTypeCode(Object* value);

[VB] Public Shared Function GetTypeCode(ByVal value As Object) As

TypeCode

[JScript] public static function GetTypeCode(value : Object) : TypeCode;

Description

Returns the **TypeCode** for the specified object.

Return Value: The System.TypeCode for value, or System.TypeCode.Empty if value is null. An System.Object that implements the System.IConvertible interface.

IsDBNull

[C#] public static bool IsDBNull(object value);

[C++] public: static bool IsDBNull(Object* value);

[VB] Public Shared Function IsDBNull(ByVal value As Object) As Boolean

[JScript] public static function IsDBNull(value : Object) : Boolean;

Description

Returns an indication whether the specified object is of type **DBNull**.

Return Value: **true** if value is of type **System.TypeCode.DBNull**; otherwise, **false**. An object.

ToBase64CharArray

[C#] public static int ToBase64CharArray(byte[] inArray, int offsetIn, int length, char[] outArray, int offsetOut);

[C++] public: static int ToBase64CharArray(unsigned char inArray __gc[], int offsetIn, int length, __wchar_t outArray __gc[], int offsetOut);

[VB] Public Shared Function ToBase64CharArray(ByVal inArray() As Byte, ByVal offsetIn As Integer, ByVal length As Integer, ByVal outArray() As Char, ByVal offsetOut As Integer) As Integer

[JScript] public static function ToBase64CharArray(inArray : Byte[], offsetIn : int, length : int, outArray : Char[], offsetOut : int) : int;

Description

Converts the value of a subset of an 8-bit unsigned integer array to an equivalent subset of a Unicode character array consisting of base 64 digits.

Parameters specify the subsets as offsets of the input and output arrays and the number of elements in the input array.

Return Value: A 32-bit signed integer containing the number of bytes in outArray.

The subset of *length* elements of *inArray* starting at position *offsetIn*, are taken as a numeric value and converted to a subset of elements in *outArray* starting at position *offsetOut*. The return value indicates the number of converted elements in *outArray*. The subset of *outArray* consists of base 64 digits. An input

array of 8-bit unsigned integers. A position within *inArray*. The number of elements of *inArray* to convert. An output array of Unicode characters. A position within *outArray*.

ToBase64String

[C#] public static string ToBase64String(byte[] inArray);

[C++] public: static String* ToBase64String(unsigned char inArray __gc[]);

[VB] Public Shared Function ToBase64String(ByVal inArray() As Byte) As

String

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[JScript] public static function ToBase64String(inArray : Byte[]) : String;

Converts the value of an array of 8-bit unsigned integers to its equivalent String

representation consisting of base 64 digits.

Description

Converts the value of an array of 8-bit unsigned integers to its equivalent **String** representation consisting of base 64 digits.

Return Value: The **System.String** representation, in base 64, of the contents of in Array.

The elements of *inArray* are taken as a numeric value and converted to a **String** representation consisting of base 64 digits. An array of 8-bit unsigned integers.

ToBase64String

[C#] public static string ToBase64String(byte[] inArray, int offset, int length); [C++] public: static String* ToBase64String(unsigned char inArray __gc[], int

1	offset, int length);
2	[VB] Public Shared Function ToBase64String(ByVal inArray() As Byte, ByVal
3	offset As Integer, ByVal length As Integer) As String
4	[JScript] public static function ToBase64String(inArray : Byte[], offset : int,
5	length: int): String;
6	
7	Description
8	Converts the value of a subset of an array of 8-bit unsigned integers to its
9	equivalent String representation consisting of base 64 digits. Parameters specify
10	the subset as an offset and number of elements in the array.
11	Return Value: The System.String representation in base 64 of length elements of
12	inArray starting at position offset.
13	The elements of inArray are taken as a numeric value and converted to a
14	String representation in base 64. An array of 8-bit unsigned integers. An offset in
15	inArray. The number of elements of inArray to convert.
16	ToBoolean
17	
18	[C#] public static bool ToBoolean(bool value);
19	[C++] public: static bool ToBoolean(bool value);
20	[VB] Public Shared Function ToBoolean(ByVal value As Boolean) As Boolean
21	[JScript] public static function ToBoolean(value : Boolean) : Boolean;
22	
23	Description
24	Returns the specified Boolean value; no actual conversion is performed.
25	Return Value: value is returned unchanged. A Boolean.

1	ToBoolean
2	
3	[C#] public static bool ToBoolean(byte value);
4	[C++] public: static bool ToBoolean(unsigned char value);
5	[VB] Public Shared Function ToBoolean(ByVal value As Byte) As Boolean
6	[JScript] public static function ToBoolean(value : Byte) : Boolean;
7	
8	Description
9	Converts the value of the specified 8-bit unsigned integer to an equivalent
10	Boolean value.
11	Return Value: true if value is non-zero; otherwise, false. An 8-bit unsigned
12	integer.
13	ToBoolean
14	
15	[C#] public static bool ToBoolean(char value);
16	[C++] public: static bool ToBoolean(_wchar_t value);
17	[VB] Public Shared Function ToBoolean(ByVal value As Char) As Boolean
18	[JScript] public static function ToBoolean(value : Char) : Boolean;
19	
20	Description
21	Conversion from Char to Boolean is not supported.
22	Return Value: (None) Attempt to convert Char to Boolean. A Unicode character.
23	ToBoolean
24	
25	[C#] public static bool ToBoolean(DateTime value);

1	[C++] public: static bool ToBoolean(DateTime value);
2	[VB] Public Shared Function ToBoolean(ByVal value As DateTime) As Boolean
3	[JScript] public static function ToBoolean(value : DateTime) : Boolean;
4	
5	Description
6	Calling this method always throws System.InvalidCastException.
7	This method is reserved for future use. A System.DateTime.
8	ToBoolean
9	
10	[C#] public static bool ToBoolean(decimal value);
11	[C++] public: static bool ToBoolean(Decimal value);
12	[VB] Public Shared Function ToBoolean(ByVal value As Decimal) As Boolean
13	[JScript] public static function ToBoolean(value : Decimal) : Boolean;
14	
15	Description
16	Converts the value of the specified Decimal number to an equivalent
17	Boolean value.
18	Return Value: true if value is non-zero; otherwise, false.
19	
20	Description
21	Converts the value of the specified Decimal number to an equivalent
22	Boolean value.
23	Return Value: true if value is non-zero; otherwise, false. A System.Decimal
24	number.
25	ToBoolean

[C#] public static bool ToBoolean(double value);
[C++] public: static bool ToBoolean(double value);
[VB] Public Shared Function ToBoolean(ByVal value As Double) As Boolean
[JScript] public static function ToBoolean(value : double) : Boolean;
Description
Converts the value of the specified double-precision floating point number
to an equivalent Boolean value.
Return Value: true if value is non-zero; otherwise, false. A double-precision
floating point number.
ToBoolean
[C#] public static bool ToBoolean(short value);
[C++] public: static bool ToBoolean(short value);
[VB] Public Shared Function ToBoolean(ByVal value As Short) As Boolean
[JScript] public static function ToBoolean(value : Int16) : Boolean;
Description
Converts the value of the specified 16-bit signed integer to an equivalent
Boolean value.
Return Value: true if value is non-zero; otherwise, false. A 16-bit signed integer.
ToBoolean
[C#] public static bool ToBoolean(int value);

1	[C++] public: static bool ToBoolean(int value);
2	[VB] Public Shared Function ToBoolean(ByVal value As Integer) As Boolean
3	[JScript] public static function ToBoolean(value : int) : Boolean;
4	
5	Description
6	Converts the value of the specified 32-bit signed integer to an equivalent
7	Boolean value.
8	Return Value: true if value is non-zero; otherwise, false. A 32-bit signed integer
9	ToBoolean
10	
11	[C#] public static bool ToBoolean(long value);
12	[C++] public: static bool ToBoolean(int64 value);
13	[VB] Public Shared Function ToBoolean(ByVal value As Long) As Boolean
14	[JScript] public static function ToBoolean(value : long) : Boolean;
15	
16	Description
17	Converts the value of the specified 64-bit signed integer to an equivalent
18	Boolean value.
19	Return Value: true if value is non-zero; otherwise, false. A 64-bit signed integer
20	ToBoolean
21	
22	[C#] public static bool ToBoolean(object value);
23	[C++] public: static bool ToBoolean(Object* value);
24	[VB] Public Shared Function ToBoolean(ByVal value As Object) As Boolean
25	[JScript] public static function ToBoolean(value : Object) : Boolean; Converts a

1	specified value to an equivalent Boolean value.
2	
3	Description
4	Converts the value of a specified Object to an equivalent Boolean value.
5	Return Value: false if value equals null. An System.Object that implements the
6	System.IConvertible interface or null.
7	ToBoolean
8	
9	[C#] public static bool ToBoolean(sbyte value);
10	[C++] public: static bool ToBoolean(char value);
11	[VB] Public Shared Function ToBoolean(ByVal value As SByte) As Boolean
12	[JScript] public static function ToBoolean(value : SByte) : Boolean;
13	
14	Description
15	Converts the value of the specified 8-bit signed integer to an equivalent
16	Boolean value.
17	Return Value: true if value is non-zero; otherwise, false. An 8-bit signed integer
18	ToBoolean
19	
20	[C#] public static bool ToBoolean(float value);
21	[C++] public: static bool ToBoolean(float value);
22	[VB] Public Shared Function ToBoolean(ByVal value As Single) As Boolean
23	[JScript] public static function ToBoolean(value : float) : Boolean;
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25	Description

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Converts the value of the specified single-precision floating point number to an equivalent Boolean value.

Return Value: true if value is non-zero; otherwise, false. A single-precision floating point number.

ToBoolean

[C#] public static bool ToBoolean(string value);

[C++] public: static bool ToBoolean(String* value);

[VB] Public Shared Function ToBoolean(ByVal value As String) As Boolean [JScript] public static function ToBoolean(value : String) : Boolean;

Description

Converts the specified **String** representation of a logical value to its Boolean equivalent.

Return Value: true if value equals System.Boolean.TrueString, or false if value equals System.Boolean.FalseString. A System.String that contains the value of either System.Boolean.TrueString or System.Boolean.FalseString.

ToBoolean

[C#] public static bool ToBoolean(ushort value);

[C++] public: static bool ToBoolean(unsigned short value);

[VB] Public Shared Function ToBoolean(ByVal value As UInt16) As Boolean [JScript] public static function ToBoolean(value : UInt16) : Boolean;

Description

1	Converts the value of the specified 16-bit unsigned integer to an equivalent
2	Boolean value.
3	Return Value: true if value is non-zero; otherwise, false. A 16-bit unsigned
4	integer.
5	ToBoolean
6	
7	[C#] public static bool ToBoolean(uint value);
8	[C++] public: static bool ToBoolean(unsigned int value);
9	[VB] Public Shared Function ToBoolean(ByVal value As UInt32) As Boolean
10	[JScript] public static function ToBoolean(value : UInt32) : Boolean;
11	
12	Description
13	Converts the value of the specified 32-bit unsigned integer to an equivalent
14	Boolean value.
15	Return Value: true if value is non-zero; otherwise, false. A 32-bit unsigned
16	integer.
17	ToBoolean
18	
19	[C#] public static bool ToBoolean(ulong value);
20	[C++] public: static bool ToBoolean(unsignedint64 value);
21	[VB] Public Shared Function ToBoolean(ByVal value As UInt64) As Boolean
22	[JScript] public static function ToBoolean(value : UInt64) : Boolean;
23	
24	Description
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Converts the value of the specified 64-bit unsigned integer to an equivalent Boolean value.

Return Value: true if value is non-zero; otherwise, false. A 64-bit unsigned integer.

ToBoolean

[C#] public static bool ToBoolean(object value, IFormatProvider provider);
[C++] public: static bool ToBoolean(Object* value, IFormatProvider* provider);
[VB] Public Shared Function ToBoolean(ByVal value As Object, ByVal provider As IFormatProvider) As Boolean

[JScript] public static function ToBoolean(value : Object, provider :

IFormatProvider): Boolean;

Description

Converts the value of the specified **Object** to an equivalent Boolean value using the specified culture-specific formatting information.

Return Value: false if value equals null.

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a **String** that represents a number, provider could supply culture-specific information about the notation used to represent that number. An **System.Object** that implements the **System.IConvertible** interface or **null**. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToBoolean

1	
2	[C#] public static bool ToBoolean(string value, IFormatProvider provider);
3	[C++] public: static bool ToBoolean(String* value, IFormatProvider* provider);
4	[VB] Public Shared Function ToBoolean(ByVal value As String, ByVal provider
5	As IFormatProvider) As Boolean
6	[JScript] public static function ToBoolean(value : String, provider :
7	IFormatProvider): Boolean;
8	
9	Description
10	Converts the specified String representation of a logical value to its
11	Boolean equivalent using the specified culture-specific formatting information.
12	Return Value: true if value equals System.Boolean.TrueString, or false if value
13	equals System.Boolean.FalseString.
14	provider is ignored; it does not participate in this operation. A string that
15	contains the value of either System.Boolean.TrueString or
16	System.Boolean.FalseString. (Reserved) An System.IFormatProvider interface
17	implementation that supplies culture-specific formatting information.
18	ToByte
19	
20	[C#] public static byte ToByte(bool value);
21	[C++] public: static unsigned char ToByte(bool value);
22	[VB] Public Shared Function ToByte(ByVal value As Boolean) As Byte
23	[JScript] public static function ToByte(value : Boolean) : Byte;
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25	Description

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Converts the value of the specified Boolean value to the equivalent 8-bit unsigned integer.

Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.

ToByte

[C#] public static byte ToByte(byte value);

[C++] public: static unsigned char ToByte(unsigned char value);

[VB] Public Shared Function ToByte(ByVal value As Byte) As Byte

[JScript] public static function ToByte(value : Byte) : Byte;

Description

Returns the specified 8-bit unsigned integer; no actual conversion is performed.

Return Value: value is returned unchanged. An 8-bit unsigned integer.

ToByte

[C#] public static byte ToByte(char value);

[C++] public: static unsigned char ToByte(__wchar_t value);

[VB] Public Shared Function ToByte(ByVal value As Char) As Byte

[JScript] public static function ToByte(value : Char) : Byte;

Description

Converts the value of the specified Unicode character to the equivalent 8-bit unsigned integer.

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Return Value: The 8-bit unsigned integer equivalent to value. A Unicode character. ToByte [C#] public static byte ToByte(DateTime value); [C++] public: static unsigned char ToByte(DateTime value); [VB] Public Shared Function ToByte(ByVal value As DateTime) As Byte [JScript] public static function ToByte(value : DateTime) : Byte; Description Calling this method always throws ${\bf System.InvalidCastException}$. This method is reserved for future use. A System.DateTime. ToByte [C#] public static byte ToByte(decimal value); [C++] public: static unsigned char ToByte(Decimal value); [VB] Public Shared Function ToByte(ByVal value As Decimal) As Byte [JScript] public static function ToByte(value : Decimal) : Byte; Description Converts the value of the specified **Decimal** number to an equivalent 8-bit

Converts the value of the specified **Decimal** number to an equivalent 8-bit unsigned integer.

Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A **System.Decimal** number.

ToByte

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[C#] public static byte ToByte(double value);

[C++] public: static unsigned char ToByte(double value);

[VB] Public Shared Function ToByte(ByVal value As Double) As Byte

[JScript] public static function ToByte(value : double) : Byte;

Description

Converts the value of the specified double-precision floating point number to an equivalent 8-bit unsigned integer.

Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number.

ToByte

[C#] public static byte ToByte(short value);

[C++] public: static unsigned char ToByte(short value);

[VB] Public Shared Function ToByte(ByVal value As Short) As Byte

[JScript] public static function ToByte(value : Int16) : Byte;

Description

Converts the value of the specified 16-bit signed integer to an equivalent 8-bit unsigned integer.

Return Value: An 8-bit unsigned integer equivalent to the value of value. A 16-bit signed integer.

1	ToByte
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3	[C#] public static byte ToByte(int value);
4	[C++] public: static unsigned char ToByte(int value);
5	[VB] Public Shared Function ToByte(ByVal value As Integer) As Byte
6	[JScript] public static function ToByte(value : int) : Byte;
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8	Description
9	Converts the value of the specified 32-bit signed integer to an equivalent 8-
10	bit unsigned integer.
11	Return Value: An 8-bit unsigned integer equivalent to the value of value. A 32-bit
12	signed integer.
13	ToByte
14	
15	[C#] public static byte ToByte(long value);
16	[C++] public: static unsigned char ToByte(int64 value);
17	[VB] Public Shared Function ToByte(ByVal value As Long) As Byte
18	[JScript] public static function ToByte(value : long) : Byte;
19	
20	Description
21	Converts the value of the specified 64-bit signed integer to an equivalent 8-
22	bit unsigned integer.
23	Return Value: An 8-bit unsigned integer equivalent to the value of value. A 64-bi
24	signed integer.
25	ToByte

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[C#] public static byte ToByte(object value);
[C++] public: static unsigned char ToByte(Object* value);
[VB] Public Shared Function ToByte(ByVal value As Object) As Byte
[JScript] public static function ToByte(value : Object) : Byte; Converts a specified
value to an 8-bit unsigned integer.

Description

Converts the value of the specified **Object** to an 8-bit unsigned integer.

Return Value: An 8-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToByte** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface or **null**.

ToByte

[C#] public static byte ToByte(sbyte value);

[C++] public: static unsigned char ToByte(char value);

[VB] Public Shared Function ToByte(ByVal value As SByte) As Byte

[JScript] public static function ToByte(value : SByte) : Byte;

Description

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Converts the value of the specified 8-bit signed integer to an equivalent 8-bit unsigned integer.

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Return Value: An 8-bit unsigned integer equivalent to the value of value. An 8-bit signed integer. ToByte [C#] public static byte ToByte(float value); [C++] public: static unsigned char ToByte(float value); [VB] Public Shared Function ToByte(ByVal value As Single) As Byte [JScript] public static function ToByte(value : float) : Byte; Description Converts the value of the specified single-precision floating point number to an equivalent 8-bit unsigned integer. Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A single-precision floating point number. ToByte [C#] public static byte ToByte(string value); [C++] public: static unsigned char ToByte(String* value); [VB] Public Shared Function ToByte(ByVal value As String) As Byte [JScript] public static function ToByte(value : String) : Byte; Description

Converts the specified **String** representation of a number to an equivalent 8-bit unsigned integer.

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Return Value: An 8-bit unsigned integer equivalent to the value of value. A System.String containing a number to convert. **ToByte** [C#] public static byte ToByte(ushort value); [C++] public: static unsigned char ToByte(unsigned short value); [VB] Public Shared Function ToByte(ByVal value As UInt16) As Byte [JScript] public static function ToByte(value : UInt16) : Byte; Description Converts the value of the specified 16-bit unsigned integer to an equivalent 8-bit unsigned integer. Return Value: An 8-bit unsigned integer equivalent to the value of value . A 16-bit unsigned integer. **ToByte** [C#] public static byte ToByte(uint value); [C++] public: static unsigned char ToByte(unsigned int value); [VB] Public Shared Function ToByte(ByVal value As UInt32) As Byte [JScript] public static function ToByte(value : UInt32) : Byte; Description Converts the value of the specified 32-bit unsigned integer to an equivalent

8-bit unsigned integer.

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Return Value: An 8-bit unsigned integer equivalent to the value of value . A 32-bit unsigned integer.

ToByte

[C#] public static byte ToByte(ulong value);

[C++] public: static unsigned char ToByte(unsigned __int64 value);

[VB] Public Shared Function ToByte(ByVal value As UInt64) As Byte

[JScript] public static function ToByte(value : UInt64) : Byte;

Description

Converts the value of the specified 64-bit unsigned integer to an equivalent 8-bit unsigned integer.

Return Value: An 8-bit unsigned integer equivalent to the value of value . A 64-bit unsigned integer.

ToByte

[C#] public static byte ToByte(object value, IFormatProvider provider);

[C++] public: static unsigned char ToByte(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToByte(ByVal value As Object, ByVal provider As

IFormatProvider) As Byte

[JScript] public static function ToByte(value : Object, provider : IFormatProvider)

: Byte;

Description

Converts the value of the specified **Object** to an 8-bit unsigned integer using the specified culture-specific formatting information.

Return Value: An 8-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a String that represents a number, provider could supply culture-specific information about the notation used to represent that number. An System.Object that implements the System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToByte

[C#] public static byte ToByte(string value, IFormatProvider provider); [C++] public: static unsigned char ToByte(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToByte(ByVal value As String, ByVal provider As IFormatProvider) As Byte

[JScript] public static function ToByte(value : String, provider : IFormatProvider) : Byte;

Description

Converts the specified **String** representation of a number to an equivalent 8-bit signed integer using specified culture-specific formatting information.

Return Value: An 8-bit signed integer equivalent to the value of value.

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System.Globalization.NumberFormatInfo object. The NumberFormatInfo object provides culture-specific information about the format of value. If provider is null, the NumberFormatInfo for the current culture is used. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToByte

[C#] public static byte ToByte(string value, int fromBase);

[C++] public: static unsigned char ToByte(String* value, int fromBase);

[VB] Public Shared Function ToByte(ByVal value As String, ByVal fromBase As Integer) As Byte

[JScript] public static function ToByte(value : String, fromBase : int) : Byte;

Description

Converts the **String** representation of a number in a specified base to an equivalent 8-bit unsigned integer.

Return Value: An 8-bit unsigned integer equivalent to the number in value. A **System.String** containing a number. The base of the number in value, which must be 2, 8, 10, or 16.

ToChar

[C#] public static char ToChar(bool value);

[C++] public: static __wchar_t ToChar(bool value);

[VB] Public Shared Function ToChar(ByVal value As Boolean) As Char

1	[JScript] public static function ToChar(value : Boolean) : Char;
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3	Description
4	Calling this method always throws System.InvalidCastException.
5	This method is reserved for future use. A System.Boolean value.
6	ToChar
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8	[C#] public static char ToChar(byte value);
9	[C++] public: staticwchar_t ToChar(unsigned char value);
10	[VB] Public Shared Function ToChar(ByVal value As Byte) As Char
11	[JScript] public static function ToChar(value : Byte) : Char;
12	
13	Description
14	Converts the value of the specified 8-bit unsigned integer to its equivalent
15	Unicode character.
16	Return Value: The Unicode character equivalent to the value of value. An 8-bit
17	unsigned integer.
18	ToChar
19	
20	[C#] public static char ToChar(char value);
21	[C++] public: staticwchar_t ToChar(wchar_t value);
22	[VB] Public Shared Function ToChar(ByVal value As Char) As Char
23	[JScript] public static function ToChar(value : Char) : Char;
24	
25	Description

1	Returns the specified Unicode character value; no actual conversion is
2	performed.
3	Return Value: value is returned unchanged. A Unicode character.
4	ToChar
5	
6	[C#] public static char ToChar(DateTime value);
7	[C++] public: staticwchar_t ToChar(DateTime value);
8	[VB] Public Shared Function ToChar(ByVal value As DateTime) As Char
9	[JScript] public static function ToChar(value : DateTime) : Char;
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11	Description
12	Calling this method always throws System.InvalidCastException .
13	This method is reserved for future use. A System.DateTime .
14	ToChar
15	
16	[C#] public static char ToChar(decimal value);
17	[C++] public: staticwchar_t ToChar(Decimal value);
18	[VB] Public Shared Function ToChar(ByVal value As Decimal) As Char
19	[JScript] public static function ToChar(value : Decimal) : Char;
20	
21	Description
22	Converts the value of the specified Decimal number to its equivalent
23	Unicode character.
24	Return Value: A Unicode character equivalent to the value of value.
25	

Unicode character.

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The return value is the result of invoking the **IConvertible.ToChar** method 1 of the underlying type of value. An System.Decimal number. 2 ToChar 3 [C#] public static char ToChar(double value); 5 [C++] public: static wchar t ToChar(double value); [VB] Public Shared Function ToChar(ByVal value As Double) As Char 7 [JScript] public static function ToChar(value : double) : Char; 8 9 Description 10 Converts the value of the specified double-precision floating point number 11 to its equivalent Unicode character. 12 Return Value: The Unicode character equivalent to the value of value. 13 The return value is the result of invoking the IConvertible.ToChar method 14 of the underlying type of *value*. A double-precision floating point number. 15 ToChar 16 17 [C#] public static char ToChar(short value); 18 [C++] public: static __wchar_t ToChar(short value); 19 [VB] Public Shared Function ToChar(ByVal value As Short) As Char 20 [JScript] public static function ToChar(value : Int16) : Char; 21 22 Description 23 Converts the value of the specified 16-bit signed integer to its equivalent 24

Return Value: The Unicode character equivalent to the value of value. A 16-bit signed integer. 2 ToChar 3 [C#] public static char ToChar(int value); [C++] public: static wchar t ToChar(int value); [VB] Public Shared Function ToChar(ByVal value As Integer) As Char 7 [JScript] public static function ToChar(value : int) : Char; 9 Description 10 Converts the value of the specified 32-bit signed integer to its equivalent 11 Unicode character. 12 Return Value: The Unicode character equivalent to the value of value. A 32-bit 13 signed integer. 14 ToChar 15 16 [C#] public static char ToChar(long value); 17 [C++] public: static wchar t ToChar(int64 value); 18 [VB] Public Shared Function ToChar(ByVal value As Long) As Char 19 [JScript] public static function ToChar(value : long) : Char; 20 21 Description 22 Converts the value of the specified 64-bit signed integer to its equivalent 23 Unicode character. 24 25

Return Value: The Unicode character equivalent to the value of value. A 64-bit signed integer. 2 ToChar 3 [C#] public static char ToChar(object value); [C++] public: static wchar t ToChar(Object* value); [VB] Public Shared Function ToChar(ByVal value As Object) As Char 7 [JScript] public static function ToChar(value : Object) : Char; Converts a specified value to a Unicode character. 10 Description 11 Converts the value of the specified **Object** to a Unicode character. 12 Return Value: The Unicode character equivalent to the value of value. 13 The return value is the result of invoking the IConvertible.ToChar method 14 of the underlying type of value. An System. Object that implements the 15 System.IConvertible interface. 16 **ToChar** 17 18 [C#] public static char ToChar(sbyte value); 19 [C++] public: static wchar t ToChar(char value); 20 [VB] Public Shared Function ToChar(ByVal value As SByte) As Char 21 [JScript] public static function ToChar(value : SByte) : Char; 22 23 Description 24 25

Converts the value of the specified 8-bit signed integer to its equivalent Unicode character.

Return Value: The Unicode character equivalent to the value of value. An 8-bit signed integer.

ToChar

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[C#] public static char ToChar(float value);

[C++] public: static wchar_t ToChar(float value);

[VB] Public Shared Function ToChar(ByVal value As Single) As Char

[JScript] public static function ToChar(value : float) : Char;

Description

Converts the value of the specified single-precision floating point number to its equivalent Unicode character.

Return Value: The Unicode character equivalent to the value of value.

The return value is the result of invoking the **IConvertible.ToChar** method of the underlying type of *value*. An single-precision floating point number.

ToChar

[C#] public static char ToChar(string value);

[C++] public: static __wchar_t ToChar(String* value);

[VB] Public Shared Function ToChar(ByVal value As String) As Char

[JScript] public static function ToChar(value : String) : Char;

Description

1 Converts the first character of a **String** to a Unicode character. Return Value: The Unicode character equivalent to the first and only character in 2 value.value is null. 3 value must be **null** or a **String** containing a single character. A System.String of length 1 or null. 5 **ToChar** 6 7 [C#] public static char ToChar(ushort value); 8 [C++] public: static __wchar_t ToChar(unsigned short value); 9 [VB] Public Shared Function ToChar(ByVal value As UInt16) As Char 10 [JScript] public static function ToChar(value : UInt16) : Char; 11 12 Description 13 Converts the value of the specified 16-bit unsigned integer to its equivalent 14 Unicode character. 15 Return Value: The Unicode character equivalent to the value of value. A 16-bit 16 unsigned integer. 17 ToChar 18 19 [C#] public static char ToChar(uint value); 20 [C++] public: static __wchar_t ToChar(unsigned int value); 21 [VB] Public Shared Function ToChar(ByVal value As UInt32) As Char 22 [JScript] public static function ToChar(value : UInt32) : Char; 23 24 Description

1 Converts the value of the specified 32-bit unsigned integer to its equivalent Unicode character. 2 Return Value: The Unicode character equivalent to the value of value. A 32-bit 3 unsigned integer. **ToChar** 5 6 [C#] public static char ToChar(ulong value); 7 [C++] public: static __wchar_t ToChar(unsigned __int64 value); 8 [VB] Public Shared Function ToChar(ByVal value As UInt64) As Char 9 [JScript] public static function ToChar(value : UInt64) : Char; 10 11 Description 12 Converts the value of the specified 64-bit unsigned integer to its equivalent 13 Unicode character. 14 Return Value: The Unicode character equivalent to the value of value. A 64-bit 15 unsigned integer. 16 ToChar 17 18 [C#] public static char ToChar(object value, IFormatProvider provider); 19 [C++] public: static __wchar_t ToChar(Object* value, IFormatProvider* 20 provider); 21 [VB] Public Shared Function ToChar(ByVal value As Object, ByVal provider As 22 IFormatProvider) As Char 23 [JScript] public static function ToChar(value : Object, provider : IFormatProvider) : Char;

Description

Converts the value of the specified **Object** to its equivalent Unicode character using the specified culture-specific formatting information.

Return Value: The Unicode character equivalent to the value of value.

The return value is the result of invoking the IConvertible.ToChar method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToChar

[C#] public static char ToChar(string value, IFormatProvider provider); [C++] public: static __wchar_t ToChar(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToChar(ByVal value As String, ByVal provider As IFormatProvider) As Char

[JScript] public static function ToChar(value : String, provider : IFormatProvider) : Char;

Description

Converts the first character of a **String** to a Unicode character using specified culture-specific formatting information.

Return Value: The Unicode character equivalent to the first and only character in value.value is **null**.

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ToDateTime

value must be null or a String containing a single character. A 1 System.String of length 1 or null. (Reserved) An System.IFormatProvider interface implementation that supplies culture-specific formatting information. **ToDateTime** [C#] public static DateTime ToDateTime(bool value); [C++] public: static DateTime ToDateTime(bool value); [VB] Public Shared Function ToDateTime(ByVal value As Boolean) As DateTime [JScript] public static function ToDateTime(value : Boolean) : DateTime; Description Calling this method always throws System.InvalidCastException. This method is reserved for future use. A Boolean value. **ToDateTime** 16 [C#] public static DateTime ToDateTime(byte value); [C++] public: static DateTime ToDateTime(unsigned char value); [VB] Public Shared Function ToDateTime(ByVal value As Byte) As DateTime [JScript] public static function ToDateTime(value : Byte) : DateTime; 20 Description 22 Calling this method always throws System.InvalidCastException. This method is reserved for future use. An 8-bit unsigned integer. 24

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2	[C#] public static DateTime ToDateTime(char value);
3	[C++] public: static DateTime ToDateTime(wchar_t value);
4	[VB] Public Shared Function ToDateTime(ByVal value As Char) As DateTime
5	[JScript] public static function ToDateTime(value : Char) : DateTime;
6	
7	Description
8	Calling this method always throws ${\bf System.InvalidCastException}$.
9	This method is reserved for future use. A Unicode character.
10	ToDateTime
11	
12	[C#] public static DateTime ToDateTime(DateTime value);
13	[C++] public: static DateTime ToDateTime(DateTime value);
14	[VB] Public Shared Function ToDateTime(ByVal value As DateTime) As
15	DateTime
16	[JScript] public static function ToDateTime(value : DateTime) : DateTime;
17	Converts a specified value to a DateTime .
18	
19	Description
20	Returns the specified DateTime ; no actual conversion is performed. A
21	System.DateTime.
22	ToDateTime
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24	[C#] public static DateTime ToDateTime(decimal value);
25	[C++] public: static DateTime ToDateTime(Decimal value);

1	[VB] Public Shared Function ToDateTime(ByVal value As Decimal) As
2	DateTime
3	[JScript] public static function ToDateTime(value : Decimal) : DateTime;
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5	Description
6	Calling this method always throws System.InvalidCastException .
7	This method is reserved for future use. A System.Decimal value.
8	ToDateTime
9	
10	[C#] public static DateTime ToDateTime(double value);
11	[C++] public: static DateTime ToDateTime(double value);
12	[VB] Public Shared Function ToDateTime(ByVal value As Double) As DateTime
13	[JScript] public static function ToDateTime(value : double) : DateTime;
14	
15	Description
16	Calling this method always throws System.InvalidCastException.
17	This method is reserved for future use. A double-precision floating point
18	value.
19	ToDateTime
20	
21	[C#] public static DateTime ToDateTime(short value);
22	[C++] public: static DateTime ToDateTime(short value);
23	[VB] Public Shared Function ToDateTime(ByVal value As Short) As DateTime
24	[JScript] public static function ToDateTime(value : Int16) : DateTime;
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2	Description
3	Calling this method always throws System.InvalidCastException.
4	This method is reserved for future use. A 16-bit signed integer.
5	ToDateTime
6	
7	[C#] public static DateTime ToDateTime(int value);
8	[C++] public: static DateTime ToDateTime(int value);
9	[VB] Public Shared Function ToDateTime(ByVal value As Integer) As DateTime
10	[JScript] public static function ToDateTime(value : int) : DateTime;
11	
12	Description
13	Calling this method always throws System.InvalidCastException.
14	This method is reserved for future use. A 32-bit signed integer.
15	ToDateTime
16	
17	[C#] public static DateTime ToDateTime(long value);
18	[C++] public: static DateTime ToDateTime(int64 value);
19	[VB] Public Shared Function ToDateTime(ByVal value As Long) As DateTime
20	[JScript] public static function ToDateTime(value : long) : DateTime;
21	
22	Description
23	Calling this method always throws System.InvalidCastException.
24	This method is reserved for future use. A 64-bit signed integer.
25	ToDateTime

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1 [C#] public static DateTime ToDateTime(object value); 2 [C++] public: static DateTime ToDateTime(Object* value); 3 [VB] Public Shared Function ToDateTime(ByVal value As Object) As DateTime 4 [JScript] public static function ToDateTime(value : Object) : DateTime; Converts 5 a specified value to a **DateTime**. 6 7 Description 8 Converts the value of the specified Object to a DateTime. Return Value: A DateTime equivalent to the value of value, or zero if value is 10 null. 11 The return value is the result of invoking the IConvertible.ToDateTime 12 method of the underlying type of value . An System.Object that implements the 13 System.IConvertible interface or null. 14 **ToDateTime** 15 16 [C#] public static DateTime ToDateTime(sbyte value); 17 [C++] public: static DateTime ToDateTime(char value); 18 [VB] Public Shared Function ToDateTime(ByVal value As SByte) As DateTime 19 [JScript] public static function ToDateTime(value : SByte) : DateTime; 21 Description 22 Calling this method always throws ${\bf System.InvalidCastException}$. 23 This method is reserved for future use. An 8-bit signed integer. 24

ToDateTime

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[C#] public static DateTime ToDateTime(float value); [C++] public: static DateTime ToDateTime(float value); 3 [VB] Public Shared Function ToDateTime(ByVal value As Single) As DateTime [JScript] public static function ToDateTime(value : float) : DateTime; 5 6 Description 7 Calling this method always throws ${\bf System.InvalidCastException}$. 8 This method is reserved for future use. A single-precision floating point 9 value. 10 **ToDateTime** 11 12 [C#] public static DateTime ToDateTime(string value); 13 [C++] public: static DateTime ToDateTime(String* value); 14 [VB] Public Shared Function ToDateTime(ByVal value As String) As DateTime 15 [JScript] public static function ToDateTime(value : String) : DateTime; 16 17 Description 18 Converts the specified String representation of a date and time to an 19 equivalent DateTime. 20 Return Value: A DateTime equivalent to the value of value. 21 The return value is the result of invoking the 22 System.DateTime.Parse(System.String) method on value . A System.String 23 containing a date and time to convert. 24

ToDateTime

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2	[C#] public static DateTime ToDateTime(ushort value);
3	[C++] public: static DateTime ToDateTime(unsigned short value);
4	[VB] Public Shared Function ToDateTime(ByVal value As UInt16) As DateTime
5	[JScript] public static function ToDateTime(value : UInt16) : DateTime;
6	
7	Description
8	Calling this method always throws System.InvalidCastException.
9	This method is reserved for future use. A 16-bit unsigned integer.
10	ToDateTime
11	
12	[C#] public static DateTime ToDateTime(uint value);
13	[C++] public: static DateTime ToDateTime(unsigned int value);
14	[VB] Public Shared Function ToDateTime(ByVal value As UInt32) As DateTime
15	[JScript] public static function ToDateTime(value : UInt32) : DateTime;
16	
17	Description
18	Calling this method always throws System.InvalidCastException.
19	This method is reserved for future use. A 32-bit unsigned integer.
20	ToDateTime
21	
22	[C#] public static DateTime ToDateTime(ulong value);
23	[C++] public: static DateTime ToDateTime(unsignedint64 value);
24	[VB] Public Shared Function ToDateTime(ByVal value As UInt64) As DateTime
25	[JScript] public static function ToDateTime(value : UInt64) : DateTime;

Description
Calli

Calling this method always throws ${\bf System.InvalidCastException}$.

This method is reserved for future use. A 64-bit unsigned integer.

ToDateTime

[C#] public static DateTime ToDateTime(object value, IFormatProvider provider); [C++] public: static DateTime ToDateTime(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToDateTime(ByVal value As Object, ByVal provider As IFormatProvider) As DateTime

[JScript] public static function ToDateTime(value : Object, provider :

IFormatProvider): DateTime;

Description

Converts the value of the specified **Object** to a **DateTime** using the specified culture-specific formatting information.

Return Value: A DateTime equivalent to the value of value, or zero if value is null.

The return value is the result of invoking the IConvertible.ToDateTime method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToDateTime

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[C#] public static DateTime ToDateTime(string value, IFormatProvider provider); [C++] public: static DateTime ToDateTime(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToDateTime(ByVal value As String, ByVal provider As IFormatProvider) As DateTime

[JScript] public static function ToDateTime(value : String, provider :

IFormatProvider): DateTime;

Description

Converts the specified **String** representation of a number to an equivalent **DateTime** using the specified culture-specific formatting information.

Return Value: A DateTime equivalent to the value of value .

The return value is the result of invoking the System.DateTime.Parse(System.String) method on value. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToDecimal

[C#] public static decimal ToDecimal(bool value);

[C++] public: static Decimal ToDecimal(bool value);

[VB] Public Shared Function ToDecimal(ByVal value As Boolean) As Decimal [JScript] public static function ToDecimal(value : Boolean) : Decimal;

Description

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Converts the value of the specified Boolean value to the equivalent

Decimal number.

Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.

[C#] public static decimal ToDecimal(byte value);

[C++] public: static Decimal ToDecimal(unsigned char value);

[VB] Public Shared Function ToDecimal(ByVal value As Byte) As Decimal

[JScript] public static function ToDecimal(value : Byte) : Decimal;

Description

Converts the value of the specified 8-bit unsigned integer to the equivalent **Decimal** number.

Return Value: The **Decimal** number equivalent to the value of value. An 8-bit unsigned integer.

ToDecimal

ToDecimal

[C#] public static decimal ToDecimal(char value);

[C++] public: static Decimal ToDecimal(_wchar_t value);

[VB] Public Shared Function ToDecimal(ByVal value As Char) As Decimal

[JScript] public static function ToDecimal(value : Char) : Decimal;

Description

Calling this method always throws ${\bf System.InvalidCastException}$.

This method is reserved for future use. A Unicode character.

1	ToDecimal
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3	[C#] public static decimal ToDecimal(DateTime value);
4	[C++] public: static Decimal ToDecimal(DateTime value);
5	[VB] Public Shared Function ToDecimal(ByVal value As DateTime) As Decimal
6	[JScript] public static function ToDecimal(value : DateTime) : Decimal;
7	
8	Description
9	Calling this method always throws System.InvalidCastException.
10	This method is reserved for future use. A System.DateTime.
11	ToDecimal
12	
13	[C#] public static decimal ToDecimal(decimal value);
14	[C++] public: static Decimal ToDecimal(Decimal value);
15	[VB] Public Shared Function ToDecimal(ByVal value As Decimal) As Decimal
16	[JScript] public static function ToDecimal(value : Decimal) : Decimal;
17	
18	Description
19	Returns the specified Decimal number; no actual conversion is performed.
20	Return Value: value is returned unchanged. A Decimal number.
21	ToDecimal
22	
23	[C#] public static decimal ToDecimal(double value);
24	[C++] public: static Decimal ToDecimal(double value);
25	[VB] Public Shared Function ToDecimal(ByVal value As Double) As Decimal

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[JScript] public static function ToDecimal(value : double) : Decimal; Description Converts the value of the specified double-precision floating point number to an equivalent Decimal number. Return Value: A Decimal number equivalent to the value of value. A doubleprecision floating point number. **ToDecimal** [C#] public static decimal ToDecimal(short value); [C++] public: static Decimal ToDecimal(short value); [VB] Public Shared Function ToDecimal(ByVal value As Short) As Decimal [JScript] public static function ToDecimal(value : Int16) : Decimal; Description 15 Converts the value of the specified 16-bit signed integer to an equivalent 16 Decimal number. 17 Return Value: A Decimal number equivalent to the value of value. A 16-bit 18 signed integer. 19 **ToDecimal** 20 21 [C#] public static decimal ToDecimal(int value); 22 [C++] public: static Decimal ToDecimal(int value); 23 [VB] Public Shared Function ToDecimal(ByVal value As Integer) As Decimal 24 [JScript] public static function ToDecimal(value : int) : Decimal;

Description

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Converts the value of the specified 32-bit signed integer to an equivalent Decimal number.

Return Value: A Decimal number equivalent to the value of value. A 32-bit signed integer.

ToDecimal

[C#] public static decimal ToDecimal(long value);

[C++] public: static Decimal ToDecimal(_int64 value);

[VB] Public Shared Function ToDecimal(ByVal value As Long) As Decimal [JScript] public static function ToDecimal(value : long) : Decimal;

Description

Converts the value of the specified 64-bit signed integer to an equivalent Decimal number.

Return Value: A Decimal number equivalent to the value of value. A 64-bit signed integer.

ToDecimal

[C#] public static decimal ToDecimal(object value);

[C++] public: static Decimal ToDecimal(Object* value);

[VB] Public Shared Function ToDecimal(ByVal value As Object) As Decimal [JScript] public static function ToDecimal(value : Object) : Decimal; Converts a specified value to a Decimal number.

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Description

Converts the value of the specified Object to a Decimal number.

Return Value: A Decimal number equivalent to the value of value, or zero if value is null.

The return value is the result of invoking the **IConvertible.ToDecimal** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface or **null**.

ToDecimal

[C#] public static decimal ToDecimal(sbyte value);

[C++] public: static Decimal ToDecimal(char value);

[VB] Public Shared Function ToDecimal(ByVal value As SByte) As Decimal [JScript] public static function ToDecimal(value : SByte) : Decimal;

Description

Converts the value of the specified 8-bit signed integer to the equivalent **Decimal** number.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer.

ToDecimal

[C#] public static decimal ToDecimal(float value);

[C++] public: static Decimal ToDecimal(float value);

[VB] Public Shared Function ToDecimal(ByVal value As Single) As Decimal

[JScript] public static function ToDecimal(value : float) : Decimal;
Description
Converts the value of the specified single-precision floating point number
to the equivalent Decimal number.
Return Value: A Decimal number equivalent to the value of value. A single-
precision floating point number.
ToDecimal
[C#] public static decimal ToDecimal(string value);
[C++] public: static Decimal ToDecimal(String* value);
[VB] Public Shared Function ToDecimal(ByVal value As String) As Decimal
[JScript] public static function ToDecimal(value : String) : Decimal;
Description
Converts the specified String representation of a number to an equivalent
Decimal number.
Return Value: A Decimal number equivalent to the value of value.
The return value is the result of invoking the
System.Decimal.Parse(System.String) method on value . A System.String
containing a number to convert.
ToDecimal
[C#] public static decimal ToDecimal(ushort value);
[C++] public: static Decimal ToDecimal(unsigned short value);

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[VB] Public Shared Function ToDecimal(ByVal value As UInt16) As Decimal [JScript] public static function ToDecimal(value : UInt16) : Decimal; Description Converts the value of the specified 16-bit unsigned integer to the equivalent Decimal number. Return Value: The Decimal number equivalent to the value of value. A 16-bit unsigned integer. **ToDecimal** [C#] public static decimal ToDecimal(uint value); [C++] public: static Decimal ToDecimal(unsigned int value); [VB] Public Shared Function ToDecimal(ByVal value As UInt32) As Decimal [JScript] public static function ToDecimal(value : UInt32) : Decimal; Description Converts the value of the specified 32-bit unsigned integer to an equivalent Decimal number. Return Value: A Decimal number equivalent to the value of value. A 32-bit unsigned integer. **ToDecimal** [C#] public static decimal ToDecimal(ulong value); [C++] public: static Decimal ToDecimal(unsigned __int64 value); [VB] Public Shared Function ToDecimal(ByVal value As UInt64) As Decimal

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[JScript] public static function ToDecimal(value : UInt64) : Decimal;

Description

Converts the value of the specified 64-bit unsigned integer to an equivalent **Decimal** number.

Return Value: A **Decimal** number equivalent to the value of value. A 64-bit unsigned integer.

ToDecimal

[C#] public static decimal ToDecimal(object value, IFormatProvider provider); [C++] public: static Decimal ToDecimal(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToDecimal(ByVal value As Object, ByVal provider As IFormatProvider) As Decimal

[JScript] public static function ToDecimal(value : Object, provider :

IFormatProvider): Decimal;

Description

Converts the value of the specified **Object** to an **Decimal** number using the specified culture-specific formatting information.

Return Value: A **Decimal** number equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToDecimal** method of the underlying type of *value* . An **System.Object** that implements the

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System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. **ToDecimal** [C#] public static decimal ToDecimal(string value, IFormatProvider provider); [C++] public: static Decimal ToDecimal(String* value, IFormatProvider* provider); [VB] Public Shared Function ToDecimal(ByVal value As String, ByVal provider As IFormatProvider) As Decimal [JScript] public static function ToDecimal(value : String, provider : IFormatProvider): Decimal; Description Converts the specified String representation of a number to an equivalent Decimal number using the specified culture-specific formatting information. Return Value: A Decimal number equivalent to the value of value. The return value is the result of invoking the System.Decimal.Parse(System.String) method on value . A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. **ToDouble** [C#] public static double ToDouble(bool value); [C++] public: static double ToDouble(bool value);

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[VB] Public Shared Function ToDouble(ByVal value As Boolean) As Double

[JScript] public static function ToDouble(value : Boolean) : double; 2 Description 3 Converts the value of the specified Boolean value to the equivalent doubleprecision floating point number. 5 Return Value: The number 1 if value is true; otherwise, 0. A Boolean value. **ToDouble** 7 8 [C#] public static double ToDouble(byte value); 9 [C++] public: static double ToDouble(unsigned char value); 10 [VB] Public Shared Function ToDouble(ByVal value As Byte) As Double 11 [JScript] public static function ToDouble(value : Byte) : double; 13 Description 14 Converts the value of the specified 8-bit unsigned integer to the equivalent 15 double-precision floating point number. 16 Return Value: The double-precision floating point number equivalent to the value 17 of value. An 8-bit unsigned integer. 18 **ToDouble** 19 20 [C#] public static double ToDouble(char value); 21 [C++] public: static double ToDouble(__wchar_t value); 22 [VB] Public Shared Function ToDouble(ByVal value As Char) As Double 23 [JScript] public static function ToDouble(value : Char) : double; 24 25

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2	Description
3	Calling this method always throws System.InvalidCastException.
4	This method is reserved for future use. A Unicode character.
5	ToDouble
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7	[C#] public static double ToDouble(DateTime value);
8	[C++] public: static double ToDouble(DateTime value);
9	[VB] Public Shared Function ToDouble(ByVal value As DateTime) As Double
10	[JScript] public static function ToDouble(value : DateTime) : double;
11	
12	Description
13	Calling this method always throws System.InvalidCastException.
14	This method is reserved for future use. A System.DateTime.
15	ToDouble
16	
17	[C#] public static double ToDouble(decimal value);
18	[C++] public: static double ToDouble(Decimal value);
19	[VB] Public Shared Function ToDouble(ByVal value As Decimal) As Double
20	[JScript] public static function ToDouble(value : Decimal) : double;
21	
22	Description
23	Converts the value of the specified Decimal number to an equivalent
24	double-precision floating point number.
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Return Value: A double-precision floating point number equivalent to the value of value . A System.Decimal number. 2 **ToDouble** 3 4 [C#] public static double ToDouble(double value); 5 [C++] public: static double ToDouble(double value); [VB] Public Shared Function ToDouble(ByVal value As Double) As Double 7 [JScript] public static function ToDouble(value : double) : double; 8 9 Description 10 Returns the specified double-precision floating point number; no actual 11 conversion is performed. 12 Return Value: value is returned unchanged. A double-precision floating point 13 number. 14 **ToDouble** 15 16 [C#] public static double ToDouble(short value); 17 [C++] public: static double ToDouble(short value); 18 [VB] Public Shared Function ToDouble(ByVal value As Short) As Double 19 [JScript] public static function ToDouble(value : Int16) : double; 20 21 Description 22 Converts the value of the specified 16-bit signed integer to an equivalent 23 double-precision floating point number. 24

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Return Value: A double-precision floating point number equivalent to the value of value. A 16-bit signed integer. 2 **ToDouble** 3 4 [C#] public static double ToDouble(int value); 5 [C++] public: static double ToDouble(int value); [VB] Public Shared Function ToDouble(ByVal value As Integer) As Double [JScript] public static function ToDouble(value : int) : double; 9 Description 10 Converts the value of the specified 32-bit signed integer to an equivalent 11 double-precision floating point number. 12 Return Value: A double-precision floating point number equivalent to the value of 13 value. A 32-bit signed integer. 14 ToDouble 15 16 [C#] public static double ToDouble(long value); 17 [C++] public: static double ToDouble(int64 value); 18 [VB] Public Shared Function ToDouble(ByVal value As Long) As Double 19 [JScript] public static function ToDouble(value : long) : double; 20 21 Description 22 Converts the value of the specified 64-bit signed integer to an equivalent 23 double-precision floating point number.

1	Return Value: A double-precision floating point number equivalent to the value of
2	value . A 64-bit signed integer.
3	ToDouble
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5	[C#] public static double ToDouble(object value);
6	[C++] public: static double ToDouble(Object* value);
7	[VB] Public Shared Function ToDouble(ByVal value As Object) As Double
8	[JScript] public static function ToDouble(value : Object) : double; Converts a
9	specified value to a double-precision floating point number.
10	
11	Description
12	Converts the value of the specified Object to a double-precision floating
13	point number.
14	Return Value: A double-precision floating point number equivalent to the value of
15	value, or zero if value is null .
16	The return value is the result of invoking the IConvertible.ToDouble
17	method of the underlying type of value. An System.Object that implements the
18	System.IConvertible interface or null.
19	ToDouble
20	
21	[C#] public static double ToDouble(sbyte value);
22	[C++] public: static double ToDouble(char value);
23	[VB] Public Shared Function ToDouble(ByVal value As SByte) As Double
24	[JScript] public static function ToDouble(value : SByte) : double;
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Converts the value of the specified 8-bit signed integer to the equivalent double-precision floating point number.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer.

ToDouble

[C#] public static double ToDouble(float value);

[C++] public: static double ToDouble(float value);

[VB] Public Shared Function ToDouble(ByVal value As Single) As Double

[JScript] public static function ToDouble(value : float) : double;

Description

Converts the value of the specified single-precision floating point number to an equivalent double-precision floating point number.

Return Value: A double-precision floating point number equivalent to the value of value. A single-precision floating point number.

ToDouble

[C#] public static double ToDouble(string value);

[C++] public: static double ToDouble(String* value);

[VB] Public Shared Function ToDouble(ByVal value As String) As Double

[JScript] public static function ToDouble(value : String) : double;

Description

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Converts the specified **String** representation of a number to an equivalent double-precision floating point number.

Return Value: A double-precision floating point number equivalent to the value of value.

The return value is the result of invoking the System.Double.Parse(System.String) method on value. A System.String containing a number to convert.

ToDouble

[C#] public static double ToDouble(ushort value);

[C++] public: static double ToDouble(unsigned short value);

[VB] Public Shared Function ToDouble(ByVal value As UInt16) As Double

[JScript] public static function ToDouble(value : UInt16) : double;

Description

Converts the value of the specified 16-bit unsigned integer to the equivalent double-precision floating point number.

Return Value: The double-precision floating point number equivalent to the value of value. A 16-bit unsigned integer.

ToDouble

[C#] public static double ToDouble(uint value);

[C++] public: static double ToDouble(unsigned int value);

[VB] Public Shared Function ToDouble(ByVal value As UInt32) As Double [JScript] public static function ToDouble(value : UInt32) : double; 3 Description Converts the value of the specified 32-bit unsigned integer to an equivalent 5 double-precision floating point number. Return Value: A double-precision floating point number equivalent to the value of 7 value. A 32-bit unsigned integer. ToDouble 10 [C#] public static double ToDouble(ulong value); 11 [C++] public: static double ToDouble(unsigned int64 value); 12 [VB] Public Shared Function ToDouble(ByVal value As UInt64) As Double 13 [JScript] public static function ToDouble(value : UInt64) : double; 14 15 Description 16 Converts the value of the specified 64-bit unsigned integer to an equivalent 17 double-precision floating point number. 18 Return Value: A double-precision floating point number equivalent to the value of 19 value . A 64-bit unsigned integer. 20 ToDouble 21 22

[C#] public static double ToDouble(object value, IFormatProvider provider);[C++] public: static double ToDouble(Object* value, IFormatProvider* provider);[VB] Public Shared Function ToDouble(ByVal value As Object, ByVal provider

As IFormatProvider) As Double

[JScript] public static function ToDouble(value : Object, provider :

IFormatProvider): double;

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Converts the value of the specified **Object** to an double-precision floating point number using the specified culture-specific formatting information.

Return Value: A double-precision floating point number equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToDouble** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToDouble

[C#] public static double ToDouble(string value, IFormatProvider provider);

[C++] public: static double ToDouble(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToDouble(ByVal value As String, ByVal provider

As IFormatProvider) As Double

[JScript] public static function ToDouble(value : String, provider :

IFormatProvider): double;

Description

Converts the specified **String** representation of a number to an equivalent double-precision floating point number using the specified culture-specific

formatting information. value. The return value is the result of invoking the

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Return Value: A double-precision floating point number equivalent to the value of

System.Double.Parse(System.String) method on value . A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt16

[C#] public static short ToInt16(bool value);

[C++] public: static short ToInt16(bool value);

[VB] Public Shared Function ToInt16(ByVal value As Boolean) As Short

[JScript] public static function ToInt16(value : Boolean) : Int16;

Description

Converts the value of the specified Boolean value to the equivalent 16-bit signed integer.

Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.

ToInt16

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[C#] public static short ToInt16(byte value);

[C++] public: static short ToInt16(unsigned char value);

[VB] Public Shared Function ToInt16(ByVal value As Byte) As Short

[JScript] public static function ToInt16(value : Byte) : Int16;

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Converts the value of the specified 8-bit unsigned integer to the equivalent 16-bit signed integer.

Return Value: The 16-bit signed integer equivalent to the value of value. An 8-bit unsigned integer.

ToInt16

[C#] public static short ToInt16(char value);

[C++] public: static short ToInt16(__wchar_t value);

[VB] Public Shared Function ToInt16(ByVal value As Char) As Short

[JScript] public static function ToInt16(value : Char) : Int16;

Description

Converts the value of the specified Unicode character to the equivalent 16-bit signed integer.

Return Value: The 16-bit signed integer equivalent to value. A Unicode character.

ToInt16

[C#] public static short ToInt16(DateTime value);

[C++] public: static short ToInt16(DateTime value);

[VB] Public Shared Function ToInt16(ByVal value As DateTime) As Short

[JScript] public static function ToInt16(value : DateTime) : Int16;

Description

Calling this method always throws ${\bf System.InvalidCastException}$. This method is reserved for future use. A System.DateTime. ToInt16 [C#] public static short ToInt16(decimal value); [C++] public: static short ToInt16(Decimal value); 6 [VB] Public Shared Function ToInt16(ByVal value As Decimal) As Short 7 [JScript] public static function ToInt16(value : Decimal) : Int16; 8 9 Description 10 Converts the value of the specified Decimal number to an equivalent 16-bit 11 signed integer. 12 Return Value: value rounded to the nearest 16-bit signed integer. If value is 13 halfway between two whole numbers, the even number is returned; that is, 4.5 is 14 converted to 4, and 5.5 is converted to 6. A System.Decimal number. 15 ToInt16 16 17 [C#] public static short ToInt16(double value); 18 [C++] public: static short ToInt16(double value); 19 [VB] Public Shared Function ToInt16(ByVal value As Double) As Short 20 [JScript] public static function ToInt16(value : double) : Int16; 21 22 Description 23 Converts the value of the specified double-precision floating point number 24 to an equivalent 16-bit signed integer.

Return Value: value rounded to the nearest 16-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point 3 number. ToInt16 5 6 [C#] public static short ToInt16(short value); 7 [C++] public: static short ToInt16(short value); 8 [VB] Public Shared Function ToInt16(ByVal value As Short) As Short 9 [JScript] public static function ToInt16(value : Int16) : Int16; 10 11 Description 12 Returns the specified 16-bit signed integer; no actual conversion is 13 performed. 14 Return Value: value is returned unchanged. A 16-bit signed integer. 15 ToInt16 16 17 [C#] public static short ToInt16(int value); 18 [C++] public: static short ToInt16(int value); 19 [VB] Public Shared Function ToInt16(ByVal value As Integer) As Short 20 [JScript] public static function ToInt16(value : int) : Int16; 21 22 Description 23 Converts the value of the specified 32-bit signed integer to an equivalent 24

16-bit signed integer.

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1	Return Value: The 16-bit signed integer equivalent of value. A 32-bit signed
2	integer.
3	ToInt16
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5	[C#] public static short ToInt16(long value);
6	[C++] public: static short ToInt16(int64 value);
7	[VB] Public Shared Function ToInt16(ByVal value As Long) As Short
8	[JScript] public static function ToInt16(value : long) : Int16;
9	
10	Description
11	Converts the value of the specified 64-bit signed integer to an equivalent
12	16-bit signed integer.
13	Return Value: A 16-bit signed integer equivalent to the value of value. A 64-bit
14	signed integer.
15	ToInt16
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17	[C#] public static short ToInt16(object value);
18	[C++] public: static short ToInt16(Object* value);
19	[VB] Public Shared Function ToInt16(ByVal value As Object) As Short
20	[JScript] public static function ToInt16(value : Object) : Int16; Converts a
21	specified value to a 16-bit signed integer.
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23	Description
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Converts the value of the specified **Object** to a 16-bit signed integer. Return Value: A 16-bit signed integer equivalent to the value of value, or zero if value is null. The return value is the result of invoking the IConvertible.ToInt16 method of the underlying type of value . An System.Object that implements the System.IConvertible interface or null. ToInt16 [C#] public static short ToInt16(sbyte value); [C++] public: static short ToInt16(char value); [VB] Public Shared Function ToInt16(ByVal value As SByte) As Short [JScript] public static function ToInt16(value : SByte) : Int16; Description Converts the value of the specified 8-bit signed integer to the equivalent 16bit signed integer. Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer. ToInt16 [C#] public static short ToInt16(float value); [C++] public: static short ToInt16(float value); [VB] Public Shared Function ToInt16(ByVal value As Single) As Short

[JScript] public static function ToInt16(value : float) : Int16;

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Converts the value of the specified single-precision floating point number to an equivalent 16-bit signed integer.

Return Value: value rounded to the nearest 16-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A single-precision floating point number.

ToInt16

[C#] public static short ToInt16(string value);

[C++] public: static short ToInt16(String* value);

[VB] Public Shared Function ToInt16(ByVal value As String) As Short

[JScript] public static function ToInt16(value : String) : Int16;

Description

Converts the specified **String** representation of a number to an equivalent 16-bit signed integer.

Return Value: A 16-bit signed integer equivalent to the value of value. A System.String containing a number to convert.

ToInt16

[C#] public static short ToInt16(ushort value);

[C++] public: static short ToInt16(unsigned short value);

[VB] Public Shared Function ToInt16(ByVal value As UInt16) As Short

[JScript] public static function ToInt16(value : UInt16) : Int16;

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Converts the value of the specified 16-bit unsigned integer to the equivalent 16-bit signed integer.

Return Value: The 16-bit signed integer equivalent to the value of value . A 16-bit unsigned integer.

ToInt16

[C#] public static short ToInt16(uint value);

[C++] public: static short ToInt16(unsigned int value);

[VB] Public Shared Function ToInt16(ByVal value As UInt32) As Short

[JScript] public static function ToInt16(value : UInt32) : Int16;

Description

Converts the value of the specified 32-bit unsigned integer to an equivalent 16-bit signed integer.

Return Value: A 16-bit signed integer equivalent to the value of value. A 32-bit unsigned integer.

ToInt16

[C#] public static short ToInt16(ulong value);

[C++] public: static short ToInt16(unsigned __int64 value);

[VB] Public Shared Function ToInt16(ByVal value As UInt64) As Short

[JScript] public static function ToInt16(value : UInt64) : Int16;

Description

Converts the value of the specified 64-bit unsigned integer to an equivalent 16-bit signed integer.

Return Value: A 16-bit signed integer equivalent to the value of value. A 64-bit unsigned integer.

ToInt16

[C#] public static short ToInt16(object value, IFormatProvider provider);
[C++] public: static short ToInt16(Object* value, IFormatProvider* provider);
[VB] Public Shared Function ToInt16(ByVal value As Object, ByVal provider As IFormatProvider) As Short
[JScript] public static function ToInt16(value : Object, provider : IFormatProvider) : Int16;

Description

Converts the value of the specified **Object** to a 16-bit signed integer using the specified culture-specific formatting information.

Return Value: A 16-bit signed integer equivalent to the value of value, or zero if value is **null**.

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a **String** that represents a number, provider could supply culture-specific information about the notation used to represent that number. An **System.Object** that implements the

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ToInt16 IFormatProvider) As Short : Int16; Description

System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

[C#] public static short ToInt16(string value, IFormatProvider provider);
[C++] public: static short ToInt16(String* value, IFormatProvider* provider);
[VB] Public Shared Function ToInt16(ByVal value As String, ByVal provider As IFormatProvider) As Short
[JScript] public static function ToInt16(value: String, provider: IFormatProvider)
: Int16:

Converts the specified **String** representation of a number to an equivalent 16-bit signed integer using specified culture-specific formatting information.

Return Value: A 16-bit signed integer equivalent to the value of value.

System.Globalization.NumberFormatInfo object. The NumberFormatInfo object provides culture-specific information about the format of value. If provider is null, the NumberFormatInfo for the current culture is used. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt16

[C#] public static short ToInt16(string value, int fromBase);[C++] public: static short ToInt16(String* value, int fromBase);

[VB] Public Shared Function ToInt16(ByVal value As String, ByVal fromBase As Integer) As Short 2 [JScript] public static function ToInt16(value : String, fromBase : int) : Int16; 3 4 Description 5 Converts the String representation of a number in a specified base to an 6 equivalent 16-bit signed integer. 7 Return Value: A 16-bit signed integer equivalent to the number in value . A 8 System.String containing a number. The base of the number in value, which must 9 be 2, 8, 10, or 16. 10 ToInt32 11 12 [C#] public static int ToInt32(bool value); 13 [C++] public: static int ToInt32(bool value); 14 [VB] Public Shared Function ToInt32(ByVal value As Boolean) As Integer 15 [JScript] public static function ToInt32(value : Boolean) : int; 17 Description 18 Converts the value of the specified Boolean value to the equivalent 32-bit 19 signed integer. 20 Return Value: The number 1 if value is true; otherwise, 0. A Boolean value. 21 ToInt32 22 23 [C#] public static int ToInt32(byte value); 24 [C++] public: static int ToInt32(unsigned char value);

[VB] Public Shared Function ToInt32(ByVal value As Byte) As Integer [JScript] public static function ToInt32(value : Byte) : int; Description Converts the value of the specified 8-bit unsigned integer to the equivalent 32-bit signed integer. Return Value: The 32-bit signed integer equivalent to the value of value . An 8-bit unsigned integer.
Description Converts the value of the specified 8-bit unsigned integer to the equivalent 32-bit signed integer. Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
Converts the value of the specified 8-bit unsigned integer to the equivalent 32-bit signed integer. Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
Converts the value of the specified 8-bit unsigned integer to the equivalent 32-bit signed integer. Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
32-bit signed integer. Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
unsigned integer.
ToInt32
[C#] public static int ToInt32(char value);
[C++] public: static int ToInt32(wchar_t value);
[VB] Public Shared Function ToInt32(ByVal value As Char) As Integer
[JScript] public static function ToInt32(value : Char) : int;
Description
Converts the value of the specified Unicode character to the equivalent 32-
bit signed integer.
Return Value: The 32-bit signed integer equivalent to value. A Unicode character
ToInt32
[C#] public static int ToInt32(DateTime value);
[C++] public: static int ToInt32(DateTime value);
To A control of the state of th
[VB] Public Shared Function ToInt32(ByVal value As DateTime) As Integer

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2	Description
3	Calling this method always throws System.InvalidCastException.
4	This method is reserved for future use. A System.DateTime.
5	ToInt32
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7	[C#] public static int ToInt32(decimal value);
8	[C++] public: static int ToInt32(Decimal value);
9	[VB] Public Shared Function ToInt32(ByVal value As Decimal) As Integer
10	[JScript] public static function ToInt32(value : Decimal) : int;
11	
12	Description
13	Converts the value of the specified Decimal number to an equivalent 32-bit
14	signed integer.
15	Return Value: value rounded to the nearest 32-bit signed integer. If value is
16	halfway between two whole numbers, the even number is returned; that is, 4.5 is
17	converted to 4, and 5.5 is converted to 6. A System.Decimal number.
18	ToInt32
19	
20	[C#] public static int ToInt32(double value);
21	[C++] public: static int ToInt32(double value);
22	[VB] Public Shared Function ToInt32(ByVal value As Double) As Integer
23	[JScript] public static function ToInt32(value : double) : int;
24	
25	Description

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Converts the value of the specified double-precision floating point number to an equivalent 32-bit signed integer.

Return Value: value rounded to the nearest 32-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number.

ToInt32

[C#] public static int ToInt32(short value);

[C++] public: static int ToInt32(short value);

[VB] Public Shared Function ToInt32(ByVal value As Short) As Integer [JScript] public static function ToInt32(value : Int16) : int;

Description

Converts the value of the specified 16-bit signed integer to an equivalent 32-bit signed integer.

Return Value: A 32-bit signed integer equivalent to the value of value . A 16-bit signed integer.

ToInt32

[C#] public static int ToInt32(int value);

[C++] public: static int ToInt32(int value);

[VB] Public Shared Function ToInt32(ByVal value As Integer) As Integer

[JScript] public static function ToInt32(value : int) : int;

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Description

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Returns the specified 32-bit signed integer; no actual conversion is performed.

Return Value: value is returned unchanged. A 32-bit signed integer.

ToInt32

[C#] public static int ToInt32(long value);

[C++] public: static int ToInt32(__int64 value);

[VB] Public Shared Function ToInt32(ByVal value As Long) As Integer

[JScript] public static function ToInt32(value : long) : int;

Description

Converts the value of the specified 64-bit signed integer to an equivalent 32-bit signed integer.

Return Value: A 32-bit signed integer equivalent to the value of value. A 64-bit signed integer.

ToInt32

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[C#] public static int ToInt32(object value);

[C++] public: static int ToInt32(Object* value);

[VB] Public Shared Function ToInt32(ByVal value As Object) As Integer

[JScript] public static function ToInt32(value : Object) : int; Converts a specified

value to a 32-bit signed integer.

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Converts the value of the specified **Object** to a 32-bit signed integer.

Return Value: A 32-bit signed integer equivalent to the value of value, or zero if

value is null.

The return value is the result of invoking the IConvertible.ToInt32 method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface or null.

ToInt32

[C#] public static int ToInt32(sbyte value);

[C++] public: static int ToInt32(char value);

[VB] Public Shared Function ToInt32(ByVal value As SByte) As Integer

[JScript] public static function ToInt32(value : SByte) : int;

Description

Converts the value of the specified 8-bit signed integer to the equivalent 32-bit signed integer.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer.

ToInt32

[C#] public static int ToInt32(float value);

[C++] public: static int ToInt32(float value);

[VB] Public Shared Function ToInt32(ByVal value As Single) As Integer

[JScript] public static function ToInt32(value : float) : int; 2 Description 3 Converts the value of the specified single-precision floating point number 4 to an equivalent 32-bit signed integer. 5 Return Value: value rounded to the nearest 32-bit signed integer. If value is 6 halfway between two whole numbers, the even number is returned; that is, 4.5 is 7 converted to 4, and 5.5 is converted to 6. A single-precision floating point number. 8 ToInt32 9 10 [C#] public static int ToInt32(string value); 11 [C++] public: static int ToInt32(String* value); 12 [VB] Public Shared Function ToInt32(ByVal value As String) As Integer 13 [JScript] public static function ToInt32(value : String) : int; 14 15 Description 16 Converts the specified **String** representation of a number to an equivalent 17 32-bit signed integer. 18 Return Value: A 32-bit signed integer equivalent to the value of value. 19 The return value is the result of invoking the 20 System.Int32.Parse(System.String) method on value . A System.String 21 containing a number to convert. 22 ToInt32 23 24 [C#] public static int ToInt32(ushort value);

1	[C++] public: static int ToInt32(unsigned short value);
2	[VB] Public Shared Function ToInt32(ByVal value As UInt16) As Integer
3	[JScript] public static function ToInt32(value : UInt16) : int;
4	
5	Description
6	Converts the value of the specified 16-bit unsigned integer to the equivalent
7	32-bit signed integer.
8	Return Value: The 32-bit signed integer equivalent to the value of value. A 16-bit
9	unsigned integer.
10	ToInt32
11	
12	[C#] public static int ToInt32(uint value);
13	[C++] public: static int ToInt32(unsigned int value);
14	[VB] Public Shared Function ToInt32(ByVal value As UInt32) As Integer
15	[JScript] public static function ToInt32(value : UInt32) : int;
16	
17	Description
18	Converts the value of the specified 32-bit unsigned integer to an equivalent
19	32-bit signed integer.
20	Return Value: A 32-bit signed integer equivalent to the value of value. A 32-bit
21	unsigned integer.
22	ToInt32
23	
24	[C#] public static int ToInt32(ulong value);
25	[C++] public: static int ToInt32(unsignedint64 value);

[VB] Public Shared Function ToInt32(ByVal value As UInt64) As Integer [JScript] public static function ToInt32(value : UInt64) : int;

Description

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Converts the value of the specified 64-bit unsigned integer to an equivalent 32-bit signed integer.

Return Value: A 32-bit signed integer equivalent to the value of value. A 64-bit unsigned integer.

ToInt32

[C#] public static int ToInt32(object value, IFormatProvider provider);

[C++] public: static int ToInt32(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToInt32(ByVal value As Object, ByVal provider As IFormatProvider) As Integer

[JScript] public static function ToInt32(value : Object, provider : IFormatProvider) : int;

Description

Converts the value of the specified **Object** to a 32-bit signed integer using the specified culture-specific formatting information.

Return Value: A 32-bit signed integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToInt32** method of the underlying type of *value* . An **System.Object** that implements the

System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt32

[C#] public static int ToInt32(string value, IFormatProvider provider);
[C++] public: static int ToInt32(String* value, IFormatProvider* provider);
[VB] Public Shared Function ToInt32(ByVal value As String, ByVal provider As IFormatProvider) As Integer
[JScript] public static function ToInt32(value: String, provider: IFormatProvider): int;

Description

Converts the specified **String** representation of a number to an equivalent 32-bit signed integer using specified culture-specific formatting information.

Return Value: A 32-bit signed integer equivalent to the value of value .

The return value is the result of invoking the

System.Int32.Parse(System.String) method on *value*. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt32

[C#] public static int ToInt32(string value, int fromBase);
[C++] public: static int ToInt32(String* value, int fromBase);
[VB] Public Shared Function ToInt32(ByVal value As String, ByVal fromBase As Integer) As Integer

[JScript] public static function ToInt32(value : String, fromBase : int) : int; 2 Description 3 Converts the String representation of a number in a specified base to an 4 equivalent 32-bit signed integer. 5 Return Value: A 32-bit signed integer equivalent to the number in value. A 6 System.String containing a number. The base of the number in value, which must 7 be 2, 8, 10, or 16. 8 ToInt64 9 10 [C#] public static long ToInt64(bool value); 11 [C++] public: static __int64 ToInt64(bool value); 12 [VB] Public Shared Function ToInt64(ByVal value As Boolean) As Long 13 [JScript] public static function ToInt64(value : Boolean) : long; 14 15 Description 16 Converts the value of the specified Boolean value to the equivalent 64-bit 17 signed integer. 18 Return Value: The number 1 if value is true; otherwise, 0. A Boolean value. 19 ToInt64 20 21 [C#] public static long ToInt64(byte value); 22 [C++] public: static __int64 ToInt64(unsigned char value); 23 [VB] Public Shared Function ToInt64(ByVal value As Byte) As Long 24 [JScript] public static function ToInt64(value : Byte) : long; 25

Description Converts the value of the specified 8-bit unsigned integer to the equivalent 3 64-bit signed integer. Return Value: The 64-bit signed integer equivalent to the value of value . An 8-bit 5 unsigned integer. 6 ToInt64 7 8 [C#] public static long ToInt64(char value); 9 [C++] public: static __int64 ToInt64(__wchar_t value); 10 [VB] Public Shared Function ToInt64(ByVal value As Char) As Long 11 [JScript] public static function ToInt64(value : Char) : long; 12 13 Description 14 Converts the value of the specified Unicode character to the equivalent 64-15 bit signed integer. 16 Return Value: The 64-bit signed integer equivalent to value. A Unicode character. 17 ToInt64 18 19 [C#] public static long ToInt64(DateTime value); 20 [C++] public: static __int64 ToInt64(DateTime value); 21 [VB] Public Shared Function ToInt64(ByVal value As DateTime) As Long 22 [JScript] public static function ToInt64(value : DateTime) : long; 23 24 Description

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1	Calling this method always throws System.InvalidCastException.
2	This method is reserved for future use. A System.DateTime.
3	ToInt64
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5	[C#] public static long ToInt64(decimal value);
6	[C++] public: staticint64 ToInt64(Decimal value);
7	[VB] Public Shared Function ToInt64(ByVal value As Decimal) As Long
8	[JScript] public static function ToInt64(value : Decimal) : long;
9	
10	Description
11	Converts the value of the specified Decimal number to an equivalent 64-bit
12	signed integer.
13	Return Value: value rounded to the nearest 64-bit signed integer. If value is
14	halfway between two whole numbers, the even number is returned; that is, 4.5 is
15	converted to 4, and 5.5 is converted to 6. A System.Decimal number.
16	ToInt64
17	
18	[C#] public static long ToInt64(double value);
19	[C++] public: staticint64 ToInt64(double value);
20	[VB] Public Shared Function ToInt64(ByVal value As Double) As Long
21	[JScript] public static function ToInt64(value : double) : long;
22	
23	Description
24	Converts the value of the specified double-precision floating point number
25	to an equivalent 64-bit signed integer.

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Description

Return Value: value rounded to the nearest 64-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number. ToInt64 [C#] public static long ToInt64(short value); [C++] public: static __int64 ToInt64(short value); [VB] Public Shared Function ToInt64(ByVal value As Short) As Long [JScript] public static function ToInt64(value : Int16) : long; Description Converts the value of the specified 16-bit signed integer to an equivalent 64-bit signed integer. Return Value: A 64-bit signed integer equivalent to the value of value. A 16-bit signed integer. ToInt64 [C#] public static long ToInt64(int value); [C++] public: static __int64 ToInt64(int value); [VB] Public Shared Function ToInt64(ByVal value As Integer) As Long [JScript] public static function ToInt64(value : int) : long;

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1	Converts the value of the specified 32-bit signed integer to an equivalent
2	64-bit signed integer.
3	Return Value: The 64-bit signed integer equivalent to the value of value. A 32-
4	signed integer.
5	ToInt64
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7	[C#] public static long ToInt64(long value);
8	[C++] public: staticint64 ToInt64(int64 value);
9	[VB] Public Shared Function ToInt64(ByVal value As Long) As Long
10	[JScript] public static function ToInt64(value : long) : long;
11	
12	Description
13	Returns the specified 64-bit signed integer; no actual conversion is
14	performed.
15	Return Value: value is returned unchanged. A 64-bit signed integer.
16	ToInt64
17	
18	[C#] public static long ToInt64(object value);
19	[C++] public: staticint64 ToInt64(Object* value);
20	[VB] Public Shared Function ToInt64(ByVal value As Object) As Long
21	[JScript] public static function ToInt64(value : Object) : long; Converts a specified
22	value to a 64-bit signed integer.
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24	Description
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Converts the value of the specified **Object** to a 64-bit signed integer.

Return Value: A 64-bit signed integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the IConvertible.ToInt64 method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface or null.

ToInt64

[C#] public static long ToInt64(sbyte value);

[C++] public: static __int64 ToInt64(char value);

[VB] Public Shared Function ToInt64(ByVal value As SByte) As Long

[JScript] public static function ToInt64(value : SByte) : long;

Description

Converts the value of the specified 8-bit signed integer to the equivalent 64-bit signed integer.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer.

ToInt64

[C#] public static long ToInt64(float value);

[C++] public: static __int64 ToInt64(float value);

[VB] Public Shared Function ToInt64(ByVal value As Single) As Long

[JScript] public static function ToInt64(value : float) : long;

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Description

Converts the value of the specified single-precision floating point number to an equivalent 64-bit signed integer.

Return Value: value rounded to the nearest 64-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A single-precision floating point number.

ToInt64

[C#] public static long ToInt64(string value);

[C++] public: static __int64 ToInt64(String* value);

[VB] Public Shared Function ToInt64(ByVal value As String) As Long

[JScript] public static function ToInt64(value : String) : long;

Description

Converts the specified **String** representation of a number to an equivalent 64-bit signed integer.

Return Value: A 64-bit signed integer equivalent to the value of value.

The return value is the result of invoking the System.Int64.Parse(System.String) method on value. A System.String containing a number to convert.

ToInt64

[C#] public static long ToInt64(ushort value);

[C++] public: static __int64 ToInt64(unsigned short value);

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[VB] Public Shared Function ToInt64(ByVal value As UInt16) As Long [JScript] public static function ToInt64(value : UInt16) : long; Description Converts the value of the specified 16-bit unsigned integer to the equivalent 64-bit signed integer. Return Value: The 64-bit signed integer equivalent to the value of value. A 16-bit unsigned integer. ToInt64 [C#] public static long ToInt64(uint value); [C++] public: static __int64 ToInt64(unsigned int value); [VB] Public Shared Function ToInt64(ByVal value As UInt32) As Long [JScript] public static function ToInt64(value : UInt32) : long; Description Converts the value of the specified 32-bit unsigned integer to an equivalent 64-bit signed integer. Return Value: A 64-bit signed integer equivalent to the value of value. A 32-bit unsigned integer. ToInt64 [C#] public static long ToInt64(ulong value); [C++] public: static __int64 ToInt64(unsigned __int64 value);

[VB] Public Shared Function ToInt64(ByVal value As UInt64) As Long

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[JScript] public static function ToInt64(value : UInt64) : long;

Description

Converts the value of the specified 64-bit unsigned integer to an equivalent 64-bit signed integer.

Return Value: A 64-bit signed integer equivalent to the value of value. A 64-bit unsigned integer.

ToInt64

[C#] public static long ToInt64(object value, IFormatProvider provider);

[C++] public: static int64 ToInt64(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToInt64(ByVal value As Object, ByVal provider As

lFormatProvider) As Long

[JScript] public static function ToInt64(value : Object, provider : IFormatProvider) : long;

Description

Converts the value of the specified **Object** to a 64-bit signed integer using the specified culture-specific formatting information.

Return Value: A 64-bit signed integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the IConvertible.ToInt64 method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

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[C#] public static long ToInt64(string value, IFormatProvider provider);

[C++] public: static __int64 ToInt64(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToInt64(ByVal value As String, ByVal provider As

IFormatProvider) As Long

[JScript] public static function ToInt64(value : String, provider : IFormatProvider)

Description

: long;

Converts the specified **String** representation of a number to an equivalent 64-bit signed integer using the specified culture-specific formatting information.

Return Value: A 64-bit signed integer equivalent to the value of value.

The return value is the result of invoking the System.Int64.Parse(System.String) method on value. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt64

[C#] public static long ToInt64(string value, int fromBase);

[C++] public: static __int64 ToInt64(String* value, int fromBase);

[VB] Public Shared Function ToInt64(ByVal value As String, ByVal fromBase As

Integer) As Long

[JScript] public static function ToInt64(value : String, fromBase : int) : long;

Description

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Converts the **String** representation of a number in a specified base to an equivalent 64-bit signed integer.

Return Value: A 64-bit signed integer equivalent to the number in value. A **System.String** containing a number. The base of the number in value, which must be 2, 8, 10, or 16.

ToSByte

[C#] public static sbyte ToSByte(bool value);

[C++] public: static char ToSByte(bool value);

[VB] Public Shared Function ToSByte(ByVal value As Boolean) As SByte

[JScript] public static function ToSByte(value : Boolean) : SByte;

Description

Converts the value of the specified Boolean value to the equivalent 8-bit signed integer.

Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.

ToSByte

[C#] public static sbyte ToSByte(byte value);

[C++] public: static char ToSByte(unsigned char value);

[VB] Public Shared Function ToSByte(ByVal value As Byte) As SByte

[JScript] public static function ToSByte(value : Byte) : SByte;

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Description

Converts the value of the specified 8-bit unsigned integer to the equivalent 8-bit signed integer.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit unsigned integer.

ToSByte

[C#] public static sbyte ToSByte(char value);

[C++] public: static char ToSByte(__wchar_t value);

[VB] Public Shared Function ToSByte(ByVal value As Char) As SByte

[JScript] public static function ToSByte(value : Char) : SByte;

Description

Converts the value of the specified Unicode character to the equivalent 8-bit signed integer.

Return Value: The 8-bit signed integer equivalent to value. A Unicode character.

ToSByte

[C#] public static sbyte ToSByte(DateTime value);

[C++] public: static char ToSByte(DateTime value);

[VB] Public Shared Function ToSByte(ByVal value As DateTime) As SByte

[JScript] public static function ToSByte(value : DateTime) : SByte;

Description

Calling this method always throws ${\bf System.InvalidCastException}$. This method is reserved for future use. A System.DateTime. 2 **ToSByte** 3 [C#] public static sbyte ToSByte(decimal value); 5 [C++] public: static char ToSByte(Decimal value); 6 [VB] Public Shared Function ToSByte(ByVal value As Decimal) As SByte 7 [JScript] public static function ToSByte(value : Decimal) : SByte; 8 9 Description 10 Converts the value of the specified Decimal number to an equivalent 8-bit 11 signed integer. 12 Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway 13 between two whole numbers, the even number is returned; that is, 4.5 is converted 14 to 4, and 5.5 is converted to 6. A System.Decimal number. 15 **ToSByte** 16 17 [C#] public static sbyte ToSByte(double value); [C++] public: static char ToSByte(double value); 19 [VB] Public Shared Function ToSByte(ByVal value As Double) As SByte 20 [JScript] public static function ToSByte(value : double) : SByte; 21 22 Description 23 Converts the value of the specified double-precision floating point number 24

to an equivalent 8-bit signed integer.

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bit signed integer.

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Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted 2 to 4, and 5.5 is converted to 6. A double-precision floating point number. 3 **ToSByte** [C#] public static sbyte ToSByte(short value); [C++] public: static char ToSByte(short value); [VB] Public Shared Function ToSByte(ByVal value As Short) As SByte [JScript] public static function ToSByte(value : Int16) : SByte; 9 10 Description 11 Converts the value of the specified 16-bit signed integer to the equivalent 8-12 bit signed integer. 13 Return Value: The 8-bit signed integer equivalent to the value of value. A 16-bit 14 signed integer. 15 **ToSByte** 16 17 [C#] public static sbyte ToSByte(int value); 18 [C++] public: static char ToSByte(int value); 19 [VB] Public Shared Function ToSByte(ByVal value As Integer) As SByte 20 [JScript] public static function ToSByte(value : int) : SByte; 21 22 Description 23 Converts the value of the specified 32-bit signed integer to an equivalent 8-24

Return Value: An 8-bit signed integer equivalent to the value of value. 2 Description 3 Converts the value of the specified 32-bit signed integer to an equivalent 8-4 bit signed integer. 5 Return Value: The 8-bit signed integer equivalent of value. A 32-signed integer. **ToSByte** 7 8 [C#] public static sbyte ToSByte(long value); 9 [C++] public: static char ToSByte(__int64 value); 10 [VB] Public Shared Function ToSByte(ByVal value As Long) As SByte 11 [JScript] public static function ToSByte(value : long) : SByte; 12 13 Description 14 Converts the value of the specified 64-bit signed integer to an equivalent 8-15 bit signed integer. 16 Return Value: An 8-bit signed integer equivalent to the value of value . A 64-bit 17 signed integer. 18 **ToSByte** 19 20 [C#] public static sbyte ToSByte(object value); 21 [C++] public: static char ToSByte(Object* value); 22 [VB] Public Shared Function ToSByte(ByVal value As Object) As SByte 23 [JScript] public static function ToSByte(value : Object) : SByte; Converts a 24 specified value to an 8-bit signed integer. 25

Description Conv

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Converts the value of the specified **Object** to an 8-bit signed integer.

Return Value: An 8-bit signed integer equivalent to the value of value, or zero if

The return value is the result of invoking the **IConvertible.ToSByte** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface or **null**.

ToSByte

[C#] public static sbyte ToSByte(sbyte value);

[C++] public: static char ToSByte(char value);

[VB] Public Shared Function ToSByte(ByVal value As SByte) As SByte

[JScript] public static function ToSByte(value : SByte) : SByte;

Description

Returns the specified 8-bit signed integer; no actual conversion is performed.

Return Value: value is returned unchanged. An 8-bit signed integer.

ToSByte

[C#] public static sbyte ToSByte(float value);

[C++] public: static char ToSByte(float value);

[VB] Public Shared Function ToSByte(ByVal value As Single) As SByte

[JScript] public static function ToSByte(value : float) : SByte;

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Converts the value of the specified single-precision floating point number to an equivalent 8-bit signed integer.

Return Value: value rounded to the nearest 8-bit signed integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A single-precision floating point number.

ToSByte

[C#] public static sbyte ToSByte(string value);

[C++] public: static char ToSByte(String* value);

[VB] Public Shared Function ToSByte(ByVal value As String) As SByte

[JScript] public static function ToSByte(value : String) : SByte;

Description

Converts the specified **String** representation of a number to an equivalent 8-bit signed integer.

Return Value: An 8-bit signed integer equivalent to the value of value. A System.String containing a number to convert.

ToSByte

[C#] public static sbyte ToSByte(ushort value);

[C++] public: static char ToSByte(unsigned short value);

[VB] Public Shared Function ToSByte(ByVal value As UInt16) As SByte

[JScript] public static function ToSByte(value : UInt16) : SByte;

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Converts the value of the specified 16-bit unsigned integer to the equivalent 8-bit signed integer.

Return Value: The 8-bit signed integer equivalent to the value of value. A 16-bit unsigned integer.

ToSByte

[C#] public static sbyte ToSByte(uint value);

[C++] public: static char ToSByte(unsigned int value);

[VB] Public Shared Function ToSByte(ByVal value As UInt32) As SByte

[JScript] public static function ToSByte(value : UInt32) : SByte;

Description

Converts the value of the specified 32-bit unsigned integer to an equivalent 8-bit signed integer.

Return Value: An 8-bit signed integer equivalent to the value of value . A 32-bit unsigned integer.

ToSByte

[C#] public static sbyte ToSByte(ulong value);

[C++] public: static char ToSByte(unsigned __int64 value);

[VB] Public Shared Function ToSByte(ByVal value As UInt64) As SByte

[JScript] public static function ToSByte(value : UInt64) : SByte;

Description

Converts the value of the specified 64-bit unsigned integer to an equivalent 8-bit signed integer.

Return Value: An 8-bit signed integer equivalent to the value of value. A 64-bit unsigned integer.

ToSByte

[C#] public static sbyte ToSByte(object value, IFormatProvider provider);
[C++] public: static char ToSByte(Object* value, IFormatProvider* provider);
[VB] Public Shared Function ToSByte(ByVal value As Object, ByVal provider As IFormatProvider) As SByte
[JScript] public static function ToSByte(value : Object, provider :

Description

IFormatProvider): SByte;

Converts the value of the specified **Object** to an 8-bit signed integer using the specified culture-specific formatting information.

Return Value: An 8-bit signed integer equivalent to the value of value, or zero if value is **null**.

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a **String** that represents a number, provider could supply culture-specific information about the notation used to represent that number. An **System.Object** that implements the

System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToSByte

[C#] public static sbyte ToSByte(string value, IFormatProvider provider);
[C++] public: static char ToSByte(String* value, IFormatProvider* provider);
[VB] Public Shared Function ToSByte(ByVal value As String, ByVal provider As IFormatProvider) As SByte
[JScript] public static function ToSByte(value: String, provider:

IFormatProvider) : SByte;

Description

Converts the specified **String** representation of a number to an equivalent 8-bit signed integer using specified culture-specific formatting information.

Return Value: An 8-bit signed integer equivalent to the value of value.

System.Globalization.NumberFormatInfo object. The NumberFormatInfo object provides culture-specific information about the format of value. If provider is null, the NumberFormatInfo for the current culture is used. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToSByte

[C#] public static sbyte ToSByte(string value, int fromBase);

[C++] public: static char ToSByte(String* value, int fromBase);

1	[VB] Public Shared Function ToSByte(ByVal value As String, ByVal fromBase
2	As Integer) As SByte
3	[JScript] public static function ToSByte(value : String, fromBase : int) : SByte;
4	
5	Description
6	Converts the String representation of a number in a specified base to an
7	equivalent 8-bit signed integer.
8	Return Value: An 8-bit signed integer equivalent to the number in value. A
9	System.String containing a number. The base of the number in value, which must
10	be 2, 8, 10, or 16.
11	ToSingle
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13	[C#] public static float ToSingle(bool value);
14	[C++] public: static float ToSingle(bool value);
15	[VB] Public Shared Function ToSingle(ByVal value As Boolean) As Single
16	[JScript] public static function ToSingle(value : Boolean) : float;
17	
18	Description
19	Converts the value of the specified Boolean value to the equivalent single-
20	precision floating point number.
21	Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.
22	ToSingle
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24	[C#] public static float ToSingle(byte value);
25	[C++] public: static float ToSingle(unsigned char value);

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[VB] Public Shared Function ToSingle(ByVal value As Byte) As Single [JScript] public static function ToSingle(value : Byte) : float; Description Converts the value of the specified 8-bit unsigned integer to the equivalent single-precision floating point number. Return Value: The single-precision floating point number equivalent to the value of value. An 8-bit unsigned integer. **ToSingle** [C#] public static float ToSingle(char value); [C++] public: static float ToSingle(_wchar_t value); [VB] Public Shared Function ToSingle(ByVal value As Char) As Single [JScript] public static function ToSingle(value : Char) : float; Description Calling this method always throws System.InvalidCastException. This method is reserved for future use. A Unicode character. **ToSingle** [C#] public static float ToSingle(DateTime value); [C++] public: static float ToSingle(DateTime value); [VB] Public Shared Function ToSingle(ByVal value As DateTime) As Single [JScript] public static function ToSingle(value : DateTime) : float;

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2	Description
3	Calling this method always throws System.InvalidCastException.
4	This method is reserved for future use. A System.DateTime.
5	ToSingle
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7	[C#] public static float ToSingle(decimal value);
8	[C++] public: static float ToSingle(Decimal value);
9	[VB] Public Shared Function ToSingle(ByVal value As Decimal) As Single
10	[JScript] public static function ToSingle(value : Decimal) : float;
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12	Description
13	Converts the value of the specified Decimal number to an equivalent
14	single-precision floating point number.
15	Return Value: A single-precision floating point number equivalent to the value of
16	value . A System.Decimal number.
17	ToSingle
18	
19	[C#] public static float ToSingle(double value);
20	[C++] public: static float ToSingle(double value);
21	[VB] Public Shared Function ToSingle(ByVal value As Double) As Single
22	[JScript] public static function ToSingle(value : double) : float;
23	
24	Description
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Converts the value of the specified double-precision floating point number 1 to an equivalent single-precision floating point number. 2 Return Value: A single-precision floating point number equivalent to the value of 3 value . A double-precision floating point number. **ToSingle** 5 6 [C#] public static float ToSingle(short value); 7 [C++] public: static float ToSingle(short value); 8 [VB] Public Shared Function ToSingle(ByVal value As Short) As Single 9 [JScript] public static function ToSingle(value: Int16): float; 10 11 Description 12 Converts the value of the specified 16-bit signed integer to an equivalent 13 single-precision floating point number. 14 Return Value: A single-precision floating point number equivalent to the value of 15 value . A 16-bit signed integer. 16 **ToSingle** 17 18 [C#] public static float ToSingle(int value); 19 [C++] public: static float ToSingle(int value); 20 [VB] Public Shared Function ToSingle(ByVal value As Integer) As Single 21 [JScript] public static function ToSingle(value : int) : float; 22 23 Description 24

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Converts the value of the specified 32-bit signed integer to an equivalent single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of value. A 32-bit signed integer.

ToSingle

[C#] public static float ToSingle(long value);

[C++] public: static float ToSingle(__int64 value);

[VB] Public Shared Function ToSingle(ByVal value As Long) As Single

[JScript] public static function ToSingle(value : long) : float;

Description

Converts the value of the specified 64-bit signed integer to an equivalent single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of value. A 64-bit signed integer.

ToSingle

[C#] public static float ToSingle(object value);

[C++] public: static float ToSingle(Object* value);

[VB] Public Shared Function ToSingle(ByVal value As Object) As Single

[JScript] public static function ToSingle(value : Object) : float; Converts a

specified value to a single-precision floating point number.

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Converts the value of the specified **Object** to a single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of

The return value is the result of invoking the **IConvertible.ToSingle** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface or **null**.

ToSingle

value, or zero if value is null.

[C#] public static float ToSingle(sbyte value);

[C++] public: static float ToSingle(char value);

[VB] Public Shared Function ToSingle(ByVal value As SByte) As Single

[JScript] public static function ToSingle(value : SByte) : float;

Description

Converts the value of the specified 8-bit signed integer to the equivalent single-precision floating point number.

Return Value: The 8-bit signed integer equivalent to the value of value. An 8-bit signed integer.

ToSingle

[C#] public static float ToSingle(float value);

[C++] public: static float ToSingle(float value);

[VB] Public Shared Function ToSingle(ByVal value As Single) As Single

[JScript] public static function ToSingle(value : float) : float;

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Description

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Returns the specified single-precision floating point number; no actual conversion is performed.

Return Value: value is returned unchanged. A single-precision floating point number.

ToSingle

[C#] public static float ToSingle(string value);

[C++] public: static float ToSingle(String* value);

[VB] Public Shared Function ToSingle(ByVal value As String) As Single [JScript] public static function ToSingle(value : String) : float;

Description

Converts the specified **String** representation of a number to an equivalent single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of value.

The return value is the result of invoking the System.Single.Parse(System.String) method on value. A System.String containing a number to convert.

ToSingle

[C#] public static float ToSingle(ushort value);

[C++] public: static float ToSingle(unsigned short value);

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[VB] Public Shared Function ToSingle(ByVal value As UInt16) As Single [JScript] public static function ToSingle(value : UInt16) : float; Description Converts the value of the specified 16-bit unsigned integer to the equivalent single-precision floating point number. Return Value: The single-precision floating point number equivalent to the value of value. A 16-bit unsigned integer. ToSingle [C#] public static float ToSingle(uint value); [C++] public: static float ToSingle(unsigned int value); [VB] Public Shared Function ToSingle(ByVal value As UInt32) As Single [JScript] public static function ToSingle(value : UInt32) : float; Description Converts the value of the specified 32-bit unsigned integer to an equivalent single-precision floating point number. Return Value: A single-precision floating point number equivalent to the value of value . A 32-bit unsigned integer. **ToSingle** [C#] public static float ToSingle(ulong value);

[VB] Public Shared Function ToSingle(ByVal value As UInt64) As Single

[C++] public: static float ToSingle(unsigned __int64 value);

[JScript] public static function ToSingle(value : UInt64) : float;

Description

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Converts the value of the specified 64-bit unsigned integer to an equivalent single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of value. A 64-bit unsigned integer.

ToSingle

[C#] public static float ToSingle(object value, IFormatProvider provider);

[C++] public: static float ToSingle(Object* value, IFormatProvider* provider);

[VB] Public Shared Function ToSingle(ByVal value As Object, ByVal provider

As IFormatProvider) As Single

[JScript] public static function ToSingle(value : Object, provider :

IFormatProvider): float;

Description

Converts the value of the specified **Object** to an single-precision floating point number using the specified culture-specific formatting information.

Return Value: A single-precision floating point number equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the IConvertible.ToSingle method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToSingle

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[C#] public static float ToSingle(string value, IFormatProvider provider);

[C++] public: static float ToSingle(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToSingle(ByVal value As String, ByVal provider As

IFormatProvider) As Single

[JScript] public static function ToSingle(value : String, provider :

IFormatProvider): float;

Description

Converts the specified **String** representation of a number to an equivalent single-precision floating point number using the specified culture-specific formatting information.

Return Value: A single-precision floating point number equivalent to the value of value.

The return value is the result of invoking the System.Single.Parse(System.String) method on value. A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(bool value);

[C++] public: static String* ToString(bool value);

[VB] Public Shared Function ToString(ByVal value As Boolean) As String

[JScript] public static function ToString(value : Boolean) : String;

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2	Description
3	Converts the value of the specified Boolean to its equivalent String
4	representation.
5	Return Value: The System.String equivalent of the value of value.
6	This implementation is identical to System.Boolean.ToString . A Boolean
7	value.
8	ToString
9	
10	[C#] public static string ToString(byte value);
11	[C++] public: static String* ToString(unsigned char value);
12	[VB] Public Shared Function ToString(ByVal value As Byte) As String
13	[JScript] public static function ToString(value : Byte) : String;
14	
15	Description
16	Converts the value of the specified 8-bit unsigned integer to its equivalent
17	String representation.
18	Return Value: The System.String equivalent of the value of value.
19	This implementation is identical to System.Byte.ToString . An 8-bit
20	unsigned integer.
21	ToString
22	
23	[C#] public static string ToString(char value);
24	[C++] public: static String* ToString(wchar_t value);
25	[VB] Public Shared Function ToString(ByVal value As Char) As String

1	[JScript] public static function ToString(value : Char) : String;
2	
3	Description
4	Converts the value of the specified Unicode character to its equivalent
5	String representation.
6	Return Value: The System.String equivalent of the value of value.
7	This implementation is identical to System.Char.ToString. A Unicode
8	character.
9	ToString
10	
11	[C#] public static string ToString(DateTime value);
12	[C++] public: static String* ToString(DateTime value);
13	[VB] Public Shared Function ToString(ByVal value As DateTime) As String
14	[JScript] public static function ToString(value : DateTime) : String;
15	
16	Description
17	Converts the value of the specified DateTime to its equivalent String
18	representation.
19	Return Value: The System.String equivalent of the value of value.
20	This implementation is identical to System.DateTime.ToString . A
21	DateTime.
22	ToString
23	
24	[C#] public static string ToString(decimal value);
25	[C++] public: static String* ToString(Decimal value);

[VB] Public Shared Function ToString(ByVal value As Decimal) As String [JScript] public static function ToString(value : Decimal) : String; 2 3 Description 4 Converts the value of the specified Decimal number to its equivalent 5 String representation. 6 Return Value: The System.String equivalent of the value of value. 7 This implementation is identical to System.Decimal.ToString . A Decimal 8 number. 9 **ToString** 10 11 [C#] public static string ToString(double value); 12 [C++] public: static String* ToString(double value); 13 [VB] Public Shared Function ToString(ByVal value As Double) As String 14 [JScript] public static function ToString(value : double) : String; 15 16 Description 17 Converts the value of the specified double-precision floating point number 18 to its equivalent String representation. 19 Return Value: The System.String equivalent of the value of value. 20 This implementation is identical to System.Double.ToString . A double-21 precision floating point number. 22 **ToString** 23 24 [C#] public static string ToString(short value);

1	[C++] public: static String* ToString(short value);
2	[VB] Public Shared Function ToString(ByVal value As Short) As String
3	[JScript] public static function ToString(value : Int16) : String;
4	
5	Description
6	Converts the value of the specified 16-bit signed integer to its equivalent
7	String representation.
8	Return Value: The System.String equivalent of the value of value.
9	This implementation is identical to System.Int16.ToString. A 16-bit
10	signed integer.
11	ToString
12	
13	[C#] public static string ToString(int value);
14	[C++] public: static String* ToString(int value);
15	[VB] Public Shared Function ToString(ByVal value As Integer) As String
16	[JScript] public static function ToString(value : int) : String;
17	
18	Description
19	Converts the value of the specified 32-bit signed integer to its equivalent
20	String representation.
21	Return Value: The System.String equivalent of the value of value.
22	This implementation is identical to System.Int32.ToString . A 32-bit
23	signed integer.
24	ToString
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[C#] public static string ToString(long value); [C++] public: static String* ToString(__int64 value); 3 [VB] Public Shared Function ToString(ByVal value As Long) As String 4 [JScript] public static function ToString(value : long) : String; 5 6 Description 7 Converts the value of the specified 64-bit signed integer to its equivalent 8 String representation. 9 Return Value: The System.String equivalent of the value of value. 10 This implementation is identical to System.Int64.ToString . A 64-bit 11 signed integer. 12 **ToString** 13 14 [C#] public static string ToString(object value); 15 [C++] public: static String* ToString(Object* value); 16 [VB] Public Shared Function ToString(ByVal value As Object) As String 17 [JScript] public static function ToString(value : Object) : String; Converts the 18 specified value to its equivalent String representation. 19 20 Description 21 Converts the value of the specified **Object** to its **String** representation. 22 Return Value: The System.String representation of the value of value, or 23 System.String.Empty if value is null.24

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The return value is the result of invoking the ToString method of the underlying type of value . An System.Object or null. **ToString** [C#] public static string ToString(sbyte value); [C++] public: static String* ToString(char value); [VB] Public Shared Function ToString(ByVal value As SByte) As String [JScript] public static function ToString(value : SByte) : String; Description Converts the value of the specified 8-bit signed integer to its equivalent String representation. Return Value: The System.String equivalent of the value of value. This implementation is identical to System.SByte.ToString . An 8-bit signed integer. **ToString** [C#] public static string ToString(float value); [C++] public: static String* ToString(float value); [VB] Public Shared Function ToString(ByVal value As Single) As String [JScript] public static function ToString(value : float) : String; Description

Converts the value of the specified single-precision floating point number 1 to its equivalent String representation. 2 Return Value: The System.String equivalent of the value of value. 3 This implementation is identical to System.Single.ToString . A single-4 precision floating point number. 5 **ToString** 6 7 [C#] public static string ToString(string value); 8 [C++] public: static String* ToString(String* value); [VB] Public Shared Function ToString(ByVal value As String) As String 10 [JScript] public static function ToString(value : String) : String; 11 12 Description 13 Returns the specified instance of System.String; no actual conversion is 14 performed. 15 Return Value: value is returned unchanged. A System.String. 16 **ToString** 17 18 [C#] public static string ToString(ushort value); 19 [C++] public: static String* ToString(unsigned short value); 20 [VB] Public Shared Function ToString(ByVal value As UInt16) As String 21 [JScript] public static function ToString(value : UInt16) : String; 22 23 Description 24 25

Converts the value of the specified 16-bit unsigned integer to its equivalent 1 String representation. 2 Return Value: The System.String equivalent of the value of value. 3 This implementation is identical to System.UInt16.ToString . A 16-bit 4 unsigned integer. 5 **ToString** 6 7 [C#] public static string ToString(uint value); 8 [C++] public: static String* ToString(unsigned int value); [VB] Public Shared Function ToString(ByVal value As UInt32) As String 10 [JScript] public static function ToString(value : UInt32) : String; 11 12 Description 13 Converts the value of the specified 32-bit unsigned integer to its equivalent 14 String representation. 15 Return Value: The System.String equivalent of the value of value. 16 This implementation is identical to System.UInt32.ToString . A 32-bit 17 unsigned integer. 18 **ToString** 19 20 [C#] public static string ToString(ulong value); 21 [C++] public: static String* ToString(unsigned __int64 value); 22 [VB] Public Shared Function ToString(ByVal value As UInt64) As String 23 [JScript] public static function ToString(value : UInt64) : String; 24

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Converts the value of the specified 64-bit unsigned integer to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.UInt64.ToString** . A 64-bit unsigned integer.

ToString

[C#] public static string ToString(bool value, IFormatProvider provider);

[C++] public: static String* ToString(bool value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As Boolean, ByVal provider

As IFormatProvider) As String

[JScript] public static function ToString(value : Boolean, provider :

IFormatProvider): String;

Description

Converts the value of the specified Boolean to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.Boolean.ToString** . A Boolean value. (Reserved) An instance of an **System.IFormatProvider** interface implementation.

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[C#] public static string ToString(byte value, IFormatProvider provider);
[C++] public: static String* ToString(unsigned char value, IFormatProvider*
provider);
[VB] Public Shared Function ToString(ByVal value As Byte, ByVal provider As
IFormatProvider) As String
[JScript] public static function ToString(value : Byte, provider : IFormatProvider)
: String;
Description
Converts the value of the specified 8-bit unsigned integer to its equivalent
String representation.
Return Value: The System.String equivalent of the value of value.
This implementation is identical to System.Byte.ToString . An 8-bit
unsigned integer. An System.IFormatProvider interface implementation that
supplies culture-specific formatting information.
ToString
[C#] public static string ToString(byte value, int toBase);
[C++] public: static String* ToString(unsigned char value, int toBase);
[VB] Public Shared Function ToString(ByVal value As Byte, ByVal toBase As
Integer) As String
[JScript] public static function ToString(value : Byte, toBase : int) : String;

Description

Converts the value of an 8-bit unsigned integer to its equivalent **String** representation in a specified base.

Return Value: The **String** representation of value in base toBase. An 8-bit unsigned integer. The base of the return value, which must be 2, 8, 10, or 16.

ToString

[C#] public static string ToString(char value, IFormatProvider provider); [C++] public: static String* ToString(__wchar_t value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As Char, ByVal provider As IFormatProvider) As String

[JScript] public static function ToString(value : Char, provider : IFormatProvider) : String;

Description

Converts the value of the specified Unicode character to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.Char.ToString**. A Unicode character. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(DateTime value, IFormatProvider provider); [C++] public: static String* ToString(DateTime value, IFormatProvider*

1	provider);
2	[VB] Public Shared Function ToString(ByVal value As DateTime, ByVal provider
3	As IFormatProvider) As String
4	[JScript] public static function ToString(value : DateTime, provider :
5	IFormatProvider): String;
6	
7	Description
8	Converts the value of the specified DateTime to its equivalent String
9	representation.
10	Return Value: The System.String equivalent of the value of value.
11	This implementation is identical to System.DateTime.ToString . A
12	DateTime. An System.IFormatProvider interface implementation that supplies
13	culture-specific formatting information.
14	ToString
15	
16	[C#] public static string ToString(decimal value, IFormatProvider provider);
17	[C++] public: static String* ToString(Decimal value, IFormatProvider* provider)
18	[VB] Public Shared Function ToString(ByVal value As Decimal, ByVal provider
19	As IFormatProvider) As String
20	[JScript] public static function ToString(value : Decimal, provider :
21	IFormatProvider): String;
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23	Description
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Converts the value of the specified **Decimal** number to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.Decimal.ToString**. A **Decimal** number. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(double value, IFormatProvider provider);

[C++] public: static String* ToString(double value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As Double, ByVal provider

As IFormatProvider) As String

[JScript] public static function ToString(value : double, provider :

IFormatProvider): String;

Description

Converts the value of the specified double-precision floating point number to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.Double.ToString**. A double-precision floating point number. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(short value, IFormatProvider provider);

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[C++] public: static String* ToString(short value, IFormatProvider* provider); [VB] Public Shared Function ToString(ByVal value As Short, ByVal provider As IFormatProvider) As String [JScript] public static function ToString(value : Int16, provider : IFormatProvider) : String; Description Converts the value of the specified 16-bit signed integer to its equivalent String representation. Return Value: The System.String equivalent of the value of value. This implementation is identical to System.Int16.ToString. A 16-bit signed integer. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. **ToString** 15 [C#] public static string ToString(short value, int toBase); [C++] public: static String* ToString(short value, int toBase); [VB] Public Shared Function ToString(ByVal value As Short, ByVal toBase As Integer) As String [JScript] public static function ToString(value : Int16, toBase : int) : String; 20

Description

Converts the value of a 16-bit signed integer to its equivalent String representation in a specified base.

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Return Value: The String representation of value in base toBase. A 16-bit signed integer. The base of the return value, which must be 2, 8, 10, or 16. **ToString** [C#] public static string ToString(int value, IFormatProvider provider); [C++] public: static String* ToString(int value, IFormatProvider* provider); [VB] Public Shared Function ToString(ByVal value As Integer, ByVal provider As IFormatProvider) As String [JScript] public static function ToString(value : int, provider : IFormatProvider) : String; Description Converts the value of the specified 32-bit signed integer to its equivalent String representation. Return Value: The System.String equivalent of the value of value. This implementation is identical to System.Int32.ToString . A 32-bit signed integer. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. **ToString** [C#] public static string ToString(int value, int toBase);

[C++] public: static String* ToString(int value, int toBase);

[VB] Public Shared Function ToString(ByVal value As Integer, ByVal toBase As

Integer) As String

[JScript] public static function ToString(value : int, toBase : int) : String;

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Converts the value of a 32-bit signed integer to its equivalent **String** representation in a specified base.

Return Value: The **String** representation of value in base toBase. A 32-bit signed integer. The base of the return value, which must be 2, 8, 10, or 16.

ToString

[C#] public static string ToString(long value, IFormatProvider provider);

[C++] public: static String* ToString(__int64 value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As Long, ByVal provider As

IFormatProvider) As String

[JScript] public static function ToString(value : long, provider : IFormatProvider) :

String;

Description

Converts the value of the specified 64-bit signed integer to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.Int64.ToString**. A 64-bit signed integer. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(long value, int toBase);

1	[C++] public: static String* ToString(int64 value, int toBase);
2	[VB] Public Shared Function ToString(ByVal value As Long, ByVal toBase As
3	Integer) As String
4	[JScript] public static function ToString(value : long, toBase : int) : String;
5	
6	Description
7	Converts the value of a 64-bit signed integer to its equivalent String
8	representation in a specified base.
9	Return Value: The String representation of value in base toBase. A 64-bit signed
10	integer. The base of the return value, which must be 2, 8, 10, or 16.
11	ToString
12	
13	[C#] public static string ToString(object value, IFormatProvider provider);
14	[C++] public: static String* ToString(Object* value, IFormatProvider* provider);
15	[VB] Public Shared Function ToString(ByVal value As Object, ByVal provider
16	As IFormatProvider) As String
17	[JScript] public static function ToString(value : Object, provider :
18	IFormatProvider): String;
19	
20	Description
21	Converts the value of the specified Object to its equivalent String
22	representation using the specified culture-specific formatting information.
23	Return Value: The System.String representation of the value of value, or
24	System.String.Empty if value is null.
25	

provider enables the user to specify culture-specific conversion information about the contents of value. For example, if value is a String that represents a number, provider could supply culture-specific information about the notation used to represent that number. An System.Object or null. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(sbyte value, IFormatProvider provider);

[C++] public: static String* ToString(char value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As SByte, ByVal provider As

IFormatProvider) As String

[JScript] public static function ToString(value : SByte, provider :

IFormatProvider): String;

Description

Converts the value of the specified 8-bit signed integer to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.SByte.ToString**. An 8-bit signed integer. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(float value, IFormatProvider provider);

1	[C++] public: static String* ToString(float value, IFormatProvider* provider);
2	[VB] Public Shared Function ToString(ByVal value As Single, ByVal provider As
3	IFormatProvider) As String
4	[JScript] public static function ToString(value : float, provider : IFormatProvider)
5	: String;
6	
7	Description
8	Converts the value of the specified single-precision floating point number
9	to its equivalent String representation.
10	Return Value: The System.String equivalent of the value of value.
11	This implementation is identical to System.Single.ToString . A single-
12	precision floating point number. An System.IFormatProvider interface
13	implementation that supplies culture-specific formatting information.
14	ToString
15	
16	[C#] public static string ToString(string value, IFormatProvider provider);
17	[C++] public: static String* ToString(String* value, IFormatProvider* provider);
18	[VB] Public Shared Function ToString(ByVal value As String, ByVal provider As
19	IFormatProvider) As String
20	[JScript] public static function ToString(value : String, provider :
21	IFormatProvider): String;
22	
23	Description
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Returns the specified instance of **System.String**; no actual conversion is performed.

Return Value: value is returned unchanged.

This method ignores the *provider* parameter. A **System.String**. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] public static string ToString(ushort value, IFormatProvider provider);

[C++] public: static String* ToString(unsigned short value, IFormatProvider* provider);

[VB] Public Shared Function ToString(ByVal value As UInt16, ByVal provider As IFormatProvider) As String

[JScript] public static function ToString(value : UInt16, provider :

IFormatProvider): String;

Description

Converts the value of the specified 16-bit unsigned integer to its equivalent **String** representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to **System.UInt16.ToString** . A 16-bit unsigned integer. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

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IFormatProvider): String;

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2	[C#] public static string ToString(uint value, IFormatProvider provider);
3	[C++] public: static String* ToString(unsigned int value, IFormatProvider*
4	provider);
5	[VB] Public Shared Function ToString(ByVal value As UInt32, ByVal provider
6	As IFormatProvider) As String
7	[JScript] public static function ToString(value : UInt32, provider :
8	IFormatProvider): String;
9	
0	Description
1	Converts the value of the specified 32-bit unsigned integer to its equivalent
12	String representation.
13	Return Value: The System.String equivalent of the value of value.
14	This implementation is identical to System.UInt32.ToString . A 32-bit
15	unsigned integer. An System.IFormatProvider interface implementation that
16	supplies culture-specific formatting information.
17	ToString
18	
19	[C#] public static string ToString(ulong value, IFormatProvider provider);
20	[C++] public: static String* ToString(unsignedint64 value, IFormatProvider*
21	provider);
22	[VB] Public Shared Function ToString(ByVal value As UInt64, ByVal provider
23	As IFormatProvider) As String

[JScript] public static function ToString(value : UInt64, provider :

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Converts the value of the specified 64-bit unsigned integer to its equivalent String representation.

Return Value: The System.String equivalent of the value of value.

This implementation is identical to System. UInt64. ToString. A 64-bit unsigned integer. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToUInt16

[C#] public static ushort ToUInt16(bool value);

[C++] public: static unsigned short ToUInt16(bool value);

[VB] Public Shared Function ToUInt16(ByVal value As Boolean) As UInt16

[JScript] public static function ToUInt16(value : Boolean) : UInt16;

Description

Converts the value of the specified Boolean value to the equivalent 16-bit unsigned integer.

Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.

ToUInt16

[C#] public static ushort ToUInt16(byte value);

[C++] public: static unsigned short ToUInt16(unsigned char value);

[VB] Public Shared Function ToUInt16(ByVal value As Byte) As UInt16

[JScript] public static function ToUInt16(value : Byte) : UInt16;

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Converts the value of the specified 8-bit unsigned integer to the equivalent 16-bit unsigned integer.

Return Value: The 16-bit unsigned integer equivalent to the value of value. An 8bit unsigned integer.

ToUInt16

[C#] public static ushort ToUInt16(char value);

[C++] public: static unsigned short ToUInt16(wchar t value);

[VB] Public Shared Function ToUInt16(ByVal value As Char) As UInt16

[JScript] public static function ToUInt16(value : Char) : UInt16;

Description

Converts the value of the specified Unicode character to the equivalent 16bit unsigned integer.

Return Value: The 16-bit unsigned integer equivalent to value. A Unicode character.

ToUInt16

[C#] public static ushort ToUInt16(DateTime value);

[C++] public: static unsigned short ToUInt16(DateTime value);

[VB] Public Shared Function ToUInt16(ByVal value As DateTime) As UInt16

[JScript] public static function ToUInt16(value : DateTime) : UInt16;

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2	Description
3	Calling this method always throws System.InvalidCastException.
4	This method is reserved for future use. A System.DateTime.
5	ToUInt16
6	
7	[C#] public static ushort ToUInt16(decimal value);
8	[C++] public: static unsigned short ToUInt16(Decimal value);
9	[VB] Public Shared Function ToUInt16(ByVal value As Decimal) As UInt16
10	[JScript] public static function ToUInt16(value : Decimal) : UInt16;
11	
12	Description
13	Converts the value of the specified Decimal number to an equivalent 16-bit
14	unsigned integer.
15	Return Value: value rounded to the nearest 16-bit unsigned integer. If value is
16	halfway between two whole numbers, the even number is returned; that is, 4.5 is
17	converted to 4, and 5.5 is converted to 6. A System.Decimal number.
18	ToUInt16
19	
20	[C#] public static ushort ToUInt16(double value);
21	[C++] public: static unsigned short ToUInt16(double value);
22	[VB] Public Shared Function ToUInt16(ByVal value As Double) As UInt16
23	[JScript] public static function ToUInt16(value : double) : UInt16;
24	
25	Description

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Converts the value of the specified double-precision floating point number to an equivalent 16-bit unsigned integer.

Return Value: value rounded to the nearest 16-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number.

ToUInt16

[C#] public static ushort ToUInt16(short value);

[C++] public: static unsigned short ToUInt16(short value);

[VB] Public Shared Function ToUInt16(ByVal value As Short) As UInt16 [JScript] public static function ToUInt16(value : Int16) : UInt16;

Description

Converts the value of the specified 16-bit signed integer to the equivalent 16-bit unsigned integer.

Return Value: The 16-bit unsigned integer equivalent to the value of value. A 16-bit signed integer.

ToUInt16

[C#] public static ushort ToUInt16(int value);

[C++] public: static unsigned short ToUInt16(int value);

[VB] Public Shared Function ToUInt16(ByVal value As Integer) As UInt16

[JScript] public static function ToUInt16(value : int) : UInt16;

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Converts the value of the specified 32-bit signed integer to an equivalent 16-bit unsigned integer.

Return Value: The 16-bit unsigned integer equivalent of value. A 32-bit signed integer.

ToUInt16

[C#] public static ushort ToUInt16(long value);

[C++] public: static unsigned short ToUInt16(__int64 value);

[VB] Public Shared Function ToUInt16(ByVal value As Long) As UInt16

[JScript] public static function ToUInt16(value : long) : UInt16;

Description

Converts the value of the specified 64-bit signed integer to an equivalent 16-bit unsigned integer.

Return Value: A 16-bit unsigned integer equivalent to the value of value. A 64-bit signed integer.

ToUInt16

[C#] public static ushort ToUInt16(object value);

[C++] public: static unsigned short ToUInt16(Object* value);

[VB] Public Shared Function ToUInt16(ByVal value As Object) As UInt16

[JScript] public static function ToUInt16(value : Object) : UInt16; Converts a

specified value to a 16-bit unsigned integer.

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Converts the value of the specified **Object** to a 16-bit unsigned integer.

Return Value: A 16-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the IConvertible.ToUInt16 method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface or null.

ToUInt16

[C#] public static ushort ToUInt16(sbyte value);

[C++] public: static unsigned short ToUInt16(char value);

[VB] Public Shared Function ToUInt16(ByVal value As SByte) As UInt16

[JScript] public static function ToUInt16(value : SByte) : UInt16;

Description

Converts the value of the specified 8-bit signed integer to the equivalent 16-bit unsigned integer.

Return Value: The 8-bit unsigned integer equivalent to the value of value. An 8-bit signed integer.

ToUInt16

[C#] public static ushort ToUInt16(float value);

[C++] public: static unsigned short ToUInt16(float value);

[VB] Public Shared Function ToUInt16(ByVal value As Single) As UInt16

[JScript] public static function ToUInt16(value : float) : UInt16; 2 Description 3 Converts the value of the specified single-precision floating point number 4 to an equivalent 16-bit unsigned integer. 5 Return Value: value rounded to the nearest 16-bit unsigned integer. If value is 6 halfway between two whole numbers, the even number is returned; that is, 4.5 is 7 converted to 4, and 5.5 is converted to 6. A single-precision floating point number. 8 ToUInt16 9 10 [C#] public static ushort ToUInt16(string value); 11 [C++] public: static unsigned short ToUInt16(String* value); 12 [VB] Public Shared Function ToUInt16(ByVal value As String) As UInt16 13 [JScript] public static function ToUInt16(value : String) : UInt16; 14 15 Description 16 Converts the specified String representation of a number to an equivalent 17 16-bit unsigned integer. 18 Return Value: A 16-bit unsigned integer equivalent to the value of value. 19 The return value is the result of invoking 20 System.UInt16.Parse(System.String) on value. A System.String containing a 21 number to convert. 22 ToUInt16 23 24 [C#] public static ushort ToUInt16(ushort value); 25

1	[C++] public: static unsigned short ToUInt16(unsigned short value);
2	[VB] Public Shared Function ToUInt16(ByVal value As UInt16) As UInt16
3	[JScript] public static function ToUInt16(value : UInt16) : UInt16;
4	
5	Description
6	Returns the specified 16-bit unsigned integer; no actual conversion is
7	performed.
8	Return Value: value is returned unchanged. A 16-bit unsigned integer.
9	ToUInt16
10	
11	[C#] public static ushort ToUInt16(uint value);
12	[C++] public: static unsigned short ToUInt16(unsigned int value);
13	[VB] Public Shared Function ToUInt16(ByVal value As UInt32) As UInt16
14	[JScript] public static function ToUInt16(value : UInt32) : UInt16;
15	
16	Description
17	Converts the value of the specified 32-bit unsigned integer to an equivalent
18	16-bit unsigned integer.
19	Return Value: A 16-bit unsigned integer equivalent to the value of value. A 32-bit
20	unsigned integer.
21	ToUInt16
22	
23	[C#] public static ushort ToUInt16(ulong value);
24	[C++] public: static unsigned short ToUInt16(unsignedint64 value);
25	[VB] Public Shared Function ToUInt16(ByVal value As UInt64) As UInt16

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[JScript] public static function ToUInt16(value : UInt64) : UInt16; Description Converts the value of the specified 64-bit unsigned integer to an equivalent 16-bit unsigned integer. Return Value: A 16-bit unsigned integer equivalent to the value of value . A 64-bit unsigned integer. ToUInt16 provider);

[C#] public static ushort ToUInt16(object value, IFormatProvider provider);

[C++] public: static unsigned short ToUInt16(Object* value, IFormatProvider*

[VB] Public Shared Function ToUInt16(ByVal value As Object, ByVal provider As IFormatProvider) As UInt16

[JScript] public static function ToUInt16(value : Object, provider :

IFormatProvider): UInt16;

Description

Converts the value of the specified Object to a 16-bit unsigned integer using the specified culture-specific formatting information.

Return Value: A 16-bit unsigned integer equivalent to the value of value, or zero if value is null.

The return value is the result of invoking the IConvertible. ToUInt16 method of the underlying type of value . An System.Object that implements the

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System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. ToUInt16 [C#] public static ushort ToUInt16(string value, IFormatProvider provider); [C++] public: static unsigned short ToUInt16(String* value, IFormatProvider* provider); [VB] Public Shared Function ToUInt16(ByVal value As String, ByVal provider As IFormatProvider) As UInt16 [JScript] public static function ToUInt16(value : String, provider : IFormatProvider): UInt16; Description Converts the specified String representation of a number to an equivalent 16-bit unsigned integer using specified culture-specific formatting information. Return Value: A 16-bit unsigned integer equivalent to the value of value. The return value is the result of invoking System.UInt16.Parse(System.String) on value . A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. ToUInt16 [C#] public static ushort ToUInt16(string value, int fromBase); [C++] public: static unsigned short ToUInt16(String* value, int fromBase);

[VB] Public Shared Function ToUInt16(ByVal value As String, ByVal fromBase

1	As Integer) As UInt16
2	[JScript] public static function ToUInt16(value : String, fromBase : int) : UInt16;
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4	Description
5	Converts the String representation of a number in a specified base to an
6	equivalent 16-bit unsigned integer.
7	Return Value: A 16-bit unsigned integer equivalent to the number in value. A
8	System.String containing a number. The base of the number in value, which must
9	be 2, 8, 10, or 16.
10	ToUInt32
11	
12	[C#] public static uint ToUInt32(bool value);
13	[C++] public: static unsigned int ToUInt32(bool value);
14	[VB] Public Shared Function ToUInt32(ByVal value As Boolean) As UInt32
15	[JScript] public static function ToUInt32(value : Boolean) : UInt32;
16	
17	Description
18	Converts the value of the specified Boolean value to the equivalent 32-bit
19	unsigned integer.
20	Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.
21	ToUInt32
22	
23	[C#] public static uint ToUInt32(byte value);
24	[C++] public: static unsigned int ToUInt32(unsigned char value);
25	[VB] Public Shared Function ToUInt32(ByVal value As Byte) As UInt32

1	[JScript] public static function ToUInt32(value : Byte) : UInt32;
2	
3	Description
4	Converts the value of the specified 8-bit unsigned integer to the equivalent
5	32-bit signed integer.
6	Return Value: The 32-bit signed integer equivalent to the value of value. An 8-bit
7	unsigned integer.
8	ToUInt32
9	
10	[C#] public static uint ToUInt32(char value);
11	[C++] public: static unsigned int ToUInt32(wchar_t value);
12	[VB] Public Shared Function ToUInt32(ByVal value As Char) As UInt32
13	[JScript] public static function ToUInt32(value : Char) : UInt32;
14	
15	Description
16	Converts the value of the specified Unicode character to the equivalent 32-
17	bit unsigned integer.
18	Return Value: The 32-bit unsigned integer equivalent to value. A Unicode
19	character.
20	ToUInt32
21	
22	[C#] public static uint ToUInt32(DateTime value);
23	[C++] public: static unsigned int ToUInt32(DateTime value);
24	[VB] Public Shared Function ToUInt32(ByVal value As DateTime) As UInt32
25	[JScript] public static function ToUInt32(value : DateTime) : UInt32;

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2	Description
3	Calling this method always throws System.InvalidCastException .
4	This method is reserved for future use. A System.DateTime.
5	ToUInt32
6	
7	[C#] public static uint ToUInt32(decimal value);
8	[C++] public: static unsigned int ToUInt32(Decimal value);
9	[VB] Public Shared Function ToUInt32(ByVal value As Decimal) As UInt32
10	[JScript] public static function ToUInt32(value : Decimal) : UInt32;
11	
12	Description
13	Converts the value of the specified Decimal number to an equivalent 32-bit
14	unsigned integer.
15	Return Value: value rounded to the nearest 32-bit unsigned integer. If value is
16	halfway between two whole numbers, the even number is returned; that is, 4.5 is
17	converted to 4, and 5.5 is converted to 6. A System.Decimal number.
18	ToUInt32
19	
20	[C#] public static uint ToUInt32(double value);
21	[C++] public: static unsigned int ToUInt32(double value);
22	[VB] Public Shared Function ToUInt32(ByVal value As Double) As UInt32
23	[JScript] public static function ToUInt32(value : double) : UInt32;
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25	Description

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Converts the value of the specified double-precision floating point number to an equivalent 32-bit unsigned integer.

Return Value: value rounded to the nearest 32-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number.

ToUInt32

[C#] public static uint ToUInt32(short value);

[C++] public: static unsigned int ToUInt32(short value);

[VB] Public Shared Function ToUInt32(ByVal value As Short) As UInt32

[JScript] public static function ToUInt32(value : Int16) : UInt32;

Description

Converts the value of the specified 16-bit signed integer to the equivalent 32-bit unsigned integer.

Return Value: The 32-bit unsigned integer equivalent to the value of *value*. A 32-bit signed integer.

ToUInt32

[C#] public static uint ToUInt32(int value);

[C++] public: static unsigned int ToUInt32(int value);

[VB] Public Shared Function ToUInt32(ByVal value As Integer) As UInt32

[JScript] public static function ToUInt32(value : int) : UInt32;

Description

3	Converts the value of the specified 32-bit signed integer to an equivalent
4	32-bit unsigned integer.
5	Return Value: The 32-bit unsigned integer equivalent of value. A 32-bit signed
6	integer.
7	ToUInt32
8	
9	[C#] public static uint ToUInt32(long value);
10	[C++] public: static unsigned int ToUInt32(int64 value);
11	[VB] Public Shared Function ToUInt32(ByVal value As Long) As UInt32
12	[JScript] public static function ToUInt32(value : long) : UInt32;
13	
14	Description
15	Converts the value of the specified 64-bit signed integer to an equivalent
16	32-bit unsigned integer.
17	Return Value: A 32-bit unsigned integer equivalent to the value of value. A 64-bit
18	signed integer.
19	ToUInt32
20	
21	[C#] public static uint ToUInt32(object value);
22	[C++] public: static unsigned int ToUInt32(Object* value);
23	[VB] Public Shared Function ToUInt32(ByVal value As Object) As UInt32
24	[JScript] public static function ToUInt32(value : Object) : UInt32; Converts a

specified value to a 32-bit unsigned integer.

Description

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Converts the value of the specified **Object** to a 32-bit unsigned integer.

Return Value: A 32-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the IConvertible.ToUInt32 method of the underlying type of *value*. An System.Object that implements the System.IConvertible interface or null.

ToUInt32

[C#] public static uint ToUInt32(sbyte value);

[C++] public: static unsigned int ToUInt32(char value);

[VB] Public Shared Function ToUInt32(ByVal value As SByte) As UInt32

[JScript] public static function ToUInt32(value : SByte) : UInt32;

Description

Converts the value of the specified 8-bit signed integer to the equivalent 32-bit unsigned integer.

Return Value: The 8-bit unsigned integer equivalent to the value of value. An 8-bit signed integer.

ToUInt32

[C#] public static uint ToUInt32(float value);

[C++] public: static unsigned int ToUInt32(float value);

[VB] Public Shared Function ToUInt32(ByVal value As Single) As UInt32

[JScript] public static function ToUInt32(value : float) : UInt32; 2 Description 3 Converts the value of the specified single-precision floating point number to an equivalent 32-bit unsigned integer. Return Value: value rounded to the nearest 32-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is 7 converted to 4, and 5.5 is converted to 6. A single-precision floating point number. 8 ToUInt32 9 10 [C#] public static uint ToUInt32(string value); 11 [C++] public: static unsigned int ToUInt32(String* value); 12 [VB] Public Shared Function ToUInt32(ByVal value As String) As UInt32 13 [JScript] public static function ToUInt32(value : String) : UInt32; 14 15 Description 16 Converts the specified String representation of a number to an equivalent 17 32-bit signed integer. 18 Return Value: A 32-bit signed integer equivalent to the value of value. 19 The return value is the result of invoking the 20 System.Int32.Parse(System.String) method on value . A System.String 21 containing a number to convert. 22 ToUInt32 23 24 [C#] public static uint ToUInt32(ushort value);

1	[C++] public: static unsigned int ToUInt32(unsigned short value);
2	[VB] Public Shared Function ToUInt32(ByVal value As UInt16) As UInt32
3	[JScript] public static function ToUInt32(value : UInt16) : UInt32;
4	
5	Description
6	Converts the value of the specified 16-bit unsigned integer to the equivalent
7	32-bit unsigned integer.
8	Return Value: The 32-bit unsigned integer equivalent to the value of value. A 32-
9	bit signed integer.
10	ToUInt32
11	
12	[C#] public static uint ToUInt32(uint value);
13	[C++] public: static unsigned int ToUInt32(unsigned int value);
14	[VB] Public Shared Function ToUInt32(ByVal value As UInt32) As UInt32
15	[JScript] public static function ToUInt32(value : UInt32) : UInt32;
16	
17	Description
18	Returns the specified 32-bit unsigned integer; no actual conversion is
19	performed.
20	Return Value: value is returned unchanged. A 32-bit unsigned integer.
21	ToUInt32
22	
23	[C#] public static uint ToUInt32(ulong value);
24	[C++] public: static unsigned int ToUInt32(unsignedint64 value);
25	[VB] Public Shared Function ToUInt32(ByVal value As UInt64) As UInt32

1	[JScript] public static function ToUInt32(value : UInt64) : UInt32;
2	
3	Description
4	Converts the value of the specified 64-bit unsigned integer to an equivalent
5	32-bit unsigned integer.
6	Return Value: A 32-bit unsigned integer equivalent to the value of value. A 64-bit
7	unsigned integer.
8	ToUInt32
9	
10	[C#] public static uint ToUInt32(object value, IFormatProvider provider);
11	[C++] public: static unsigned int ToUInt32(Object* value, IFormatProvider*
12	provider);
13	[VB] Public Shared Function ToUInt32(ByVal value As Object, ByVal provider
14	As IFormatProvider) As UInt32
15	[JScript] public static function ToUInt32(value : Object, provider :
16	IFormatProvider): UInt32;
17	
18	Description
19	Converts the value of the specified Object to a 32-bit unsigned integer
20	using the specified culture-specific formatting information.
21	Return Value: A 32-bit unsigned integer equivalent to the value of value, or zero
22	if value is null .
23	The return value is the result of invoking the IConvertible.ToUInt32
24	method of the underlying type of value . An System.Object that implements the
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1	System.IConvertible interface. An System.IFormatProvider interface
2	implementation that supplies culture-specific formatting information.
3	ToUInt32
4	
5	[C#] public static uint ToUInt32(string value, IFormatProvider provider);
6	[C++] public: static unsigned int ToUInt32(String* value, IFormatProvider*
7	provider);
8	[VB] Public Shared Function ToUInt32(ByVal value As String, ByVal provider
9	As IFormatProvider) As UInt32
10	[JScript] public static function ToUInt32(value : String, provider :
11	IFormatProvider): UInt32;
12	
13	Description
14	Converts the specified String representation of a number to an equivalent
15	32-bit unsigned integer using the specified culture-specific formatting information
16	Return Value: A 32-bit unsigned integer equivalent to the value of value.
17	The return value is the result of invoking
18	System.UInt32.Parse(System.String) on value. A System.String containing a
19	number to convert. An System.IFormatProvider interface implementation that
20	supplies culture-specific formatting information.
21	ToUInt32
22	
23	[C#] public static uint ToUInt32(string value, int fromBase);
24	[C++] public: static unsigned int ToUInt32(String* value, int fromBase);
25	[VB] Public Shared Function ToUInt32(ByVal value As String, ByVal fromBase

1	As Integer) As UInt32
2	[JScript] public static function ToUInt32(value : String, fromBase : int) : UInt32;
3	
4	Description
5	Converts the String representation of a number in a specified base to an
6	equivalent 32-bit unsigned integer.
7	Return Value: A 32-bit unsigned integer equivalent to the number in value. A
8	System.String containing a number. The base of the number in value, which must
9	be 2, 8, 10, or 16.
10	ToUInt64
11	
12	[C#] public static ulong ToUInt64(bool value);
13	[C++] public: static unsignedint64 ToUInt64(bool value);
14	[VB] Public Shared Function ToUInt64(ByVal value As Boolean) As UInt64
15	[JScript] public static function ToUInt64(value : Boolean) : UInt64;
16	
17	Description
18	Converts the value of the specified Boolean value to the equivalent 64-bit
19	unsigned integer.
20	Return Value: The number 1 if value is true; otherwise, 0. A Boolean value.
21	ToUInt64
22	
23	[C#] public static ulong ToUInt64(byte value);
24	[C++] public: static unsignedint64 ToUInt64(unsigned char value);
25	[VB] Public Shared Function ToUInt64(ByVal value As Byte) As UInt64

[JScript] public static function ToUInt64(value : Byte) : UInt64; 2 Description 3 Converts the value of the specified 8-bit unsigned integer to the equivalent 4 64-bit signed integer. 5 Return Value: The 64-bit signed integer equivalent to the value of value. An 8-bit 6 unsigned integer. 7 ToUInt64 8 9 [C#] public static ulong ToUInt64(char value); 10 [C++] public: static unsigned __int64 ToUInt64(__wchar_t value); 11 [VB] Public Shared Function ToUInt64(ByVal value As Char) As UInt64 12 [JScript] public static function ToUInt64(value : Char) : UInt64; 13 14 Description 15 Converts the value of the specified Unicode character to the equivalent 64-16 bit unsigned integer. 17 Return Value: The 64-bit unsigned integer equivalent to value. A Unicode 18 character. 19 ToUInt64 20 21 [C#] public static ulong ToUInt64(DateTime value); 22 [C++] public: static unsigned __int64 ToUInt64(DateTime value); 23 [VB] Public Shared Function ToUInt64(ByVal value As DateTime) As UInt64 24 [JScript] public static function ToUInt64(value : DateTime) : UInt64;

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Calling this method always throws System.InvalidCastException.

This method is reserved for future use. A System.DateTime.

ToUInt64

[C#] public static ulong ToUInt64(decimal value);

[C++] public: static unsigned __int64 ToUInt64(Decimal value);

[VB] Public Shared Function ToUInt64(ByVal value As Decimal) As UInt64

[JScript] public static function ToUInt64(value : Decimal) : UInt64;

Description

Converts the value of the specified **Decimal** number to an equivalent 64-bit unsigned integer.

Return Value: value rounded to the nearest 64-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A **System.Decimal** number.

ToUInt64

[C#] public static ulong ToUInt64(double value);

[C++] public: static unsigned __int64 ToUInt64(double value);

[VB] Public Shared Function ToUInt64(ByVal value As Double) As UInt64

[JScript] public static function ToUInt64(value : double) : UInt64;

Description

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Converts the value of the specified double-precision floating point number to an equivalent 64-bit unsigned integer.

Return Value: value rounded to the nearest 64-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A double-precision floating point number.

ToUInt64

[C#] public static ulong ToUInt64(short value);

[C++] public: static unsigned __int64 ToUInt64(short value);

[VB] Public Shared Function ToUInt64(ByVal value As Short) As UInt64

[JScript] public static function ToUInt64(value: Int16): UInt64;

Description

Converts the value of the specified 16-bit signed integer to the equivalent 64-bit unsigned integer.

Return Value: The 64-bit unsigned integer equivalent to the value of value. A 64-bit signed integer.

ToUInt64

[C#] public static ulong ToUInt64(int value);

[C++] public: static unsigned __int64 ToUInt64(int value);

[VB] Public Shared Function ToUInt64(ByVal value As Integer) As UInt64

[JScript] public static function ToUInt64(value : int) : UInt64;

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Converts the value of the specified 32-bit signed integer to an equivalent 64-bit unsigned integer.

Return Value: The 64-bit unsigned integer equivalent of value. A 32-bit signed integer.

ToUInt64

[C#] public static ulong ToUInt64(long value);

[C++] public: static unsigned __int64 ToUInt64(__int64 value);

[VB] Public Shared Function ToUInt64(ByVal value As Long) As UInt64

[JScript] public static function ToUInt64(value : long) : UInt64;

Description

Converts the value of the specified 64-bit signed integer to an equivalent 64-bit unsigned integer.

Return Value: A 64-bit unsigned integer equivalent to the value of value. A 64-bit signed integer.

ToUInt64

[C#] public static ulong ToUInt64(object value);

[C++] public: static unsigned __int64 ToUInt64(Object* value);

[VB] Public Shared Function ToUInt64(ByVal value As Object) As UInt64

[JScript] public static function ToUInt64(value : Object) : UInt64; Converts a

specified value to a 64-bit unsigned integer.

Description

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Converts the value of the specified **Object** to a 64-bit unsigned integer.

Return Value: A 64-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToUInt64** method of the underlying type of *value*. An **System.Object** that implements the **System.IConvertible** interface or **null**.

ToUInt64

[C#] public static ulong ToUInt64(sbyte value);

[C++] public: static unsigned __int64 ToUInt64(char value);

[VB] Public Shared Function ToUInt64(ByVal value As SByte) As UInt64

[JScript] public static function ToUInt64(value : SByte) : UInt64;

Description

Converts the value of the specified 8-bit signed integer to the equivalent 64-bit unsigned integer.

Return Value: The 8-bit unsigned integer equivalent to the value of value. An 8-bit signed integer.

ToUInt64

[C#] public static ulong ToUInt64(float value);

[C++] public: static unsigned __int64 ToUInt64(float value);

[VB] Public Shared Function ToUInt64(ByVal value As Single) As UInt64

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[JScript] public static function ToUInt64(value : float) : UInt64; Description Converts the value of the specified single-precision floating point number to an equivalent 64-bit unsigned integer. Return Value: value rounded to the nearest 64-bit unsigned integer. If value is halfway between two whole numbers, the even number is returned; that is, 4.5 is converted to 4, and 5.5 is converted to 6. A single-precision floating point number. ToUInt64 [C#] public static ulong ToUInt64(string value); [C++] public: static unsigned __int64 ToUInt64(String* value); [VB] Public Shared Function ToUInt64(ByVal value As String) As UInt64 [JScript] public static function ToUInt64(value : String) : UInt64; Description Converts the specified String representation of a number to an equivalent 64-bit signed integer. Return Value: A 64-bit signed integer equivalent to the value of value. The return value is the result of invoking the System.Int64.Parse(System.String) method on value . A System.String containing a number to convert. ToUInt64

[C#] public static ulong ToUInt64(ushort value);

1	[C++] public: static unsignedint64 ToUInt64(unsigned short value);
2	[VB] Public Shared Function ToUInt64(ByVal value As UInt16) As UInt64
3	[JScript] public static function ToUInt64(value : UInt16) : UInt64;
4	
5	Description
6	Converts the value of the specified 16-bit unsigned integer to the equivalent
7	64-bit unsigned integer.
8	Return Value: The 64-bit unsigned integer equivalent to the value of value. A 16-
9	bit unsigned integer.
10	ToUInt64
11	
12	[C#] public static ulong ToUInt64(uint value);
13	[C++] public: static unsignedint64 ToUInt64(unsigned int value);
14	[VB] Public Shared Function ToUInt64(ByVal value As UInt32) As UInt64
15	[JScript] public static function ToUInt64(value : UInt32) : UInt64;
16	
17	Description
18	Converts the value of the specified 32-bit unsigned integer to an equivalent
19	64-bit unsigned integer.
20	Return Value: The 64-bit unsigned integer equivalent of value. A 32-bit unsigned
21	integer.
22	ToUInt64
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24	[C#] public static ulong ToUInt64(ulong value);
25	[C++] public: static unsignedint64 ToUInt64(unsignedint64 value);

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[VB] Public Shared Function ToUInt64(ByVal value As UInt64) As UInt64 [JScript] public static function ToUInt64(value : UInt64) : UInt64; Description Returns the specified 64-bit unsigned integer; no actual conversion is performed. Return Value: value is returned unchanged. A 64-bit unsigned integer. ToUInt64 [C#] public static ulong ToUInt64(object value, IFormatProvider provider); [C++] public: static unsigned __int64 ToUInt64(Object* value, IFormatProvider* provider); [VB] Public Shared Function ToUInt64(ByVal value As Object, ByVal provider As IFormatProvider) As UInt64 [JScript] public static function ToUInt64(value : Object, provider : IFormatProvider): UInt64; Description Converts the value of the specified Object to a 64-bit unsigned integer using the specified culture-specific formatting information.

Return Value: A 64-bit unsigned integer equivalent to the value of value, or zero if value is **null**.

The return value is the result of invoking the **IConvertible.ToUInt64** method of the underlying type of *value* . An **System.Object** that implements the

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System.IConvertible interface. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToUInt64

[C#] public static ulong ToUInt64(string value, IFormatProvider provider);

[C++] public: static unsigned __int64 ToUInt64(String* value, IFormatProvider* provider);

[VB] Public Shared Function ToUInt64(ByVal value As String, ByVal provider As IFormatProvider) As UInt64

[JScript] public static function ToUInt64(value : String, provider :

IFormatProvider): UInt64;

Description

Converts the specified String representation of a number to an equivalent 64-bit unsigned integer using the specified culture-specific formatting information. Return Value: A 64-bit unsigned integer equivalent to the value of value.

System.UInt64.Parse(System.String) on value . A System.String containing a number to convert. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToUInt64

[C#] public static ulong ToUInt64(string value, int fromBase);

The return value is the result of invoking

[C++] public: static unsigned __int64 ToUInt64(String* value, int fromBase);

[VB] Public Shared Function ToUInt64(ByVal value As String, ByVal fromBase

1	As Integer) As UInt64
2	[JScript] public static function ToUInt64(value : String, fromBase : int) : UInt64;
3	
4	Description
5	Converts the String representation of a number in a specified base to an
6	equivalent 64-bit unsigned integer.
7	Return Value: A 64-bit unsigned integer equivalent to the number in value. A
8	System.String containing a number. The base of the number in value, which must
9	be 2, 8, 10, or 16.
10	CrossAppDomainDelegate delegate (System)
11	ToUInt64
12	
13	
14	Description
15	Used by
16	System.AppDomain.DoCallBack(System.CrossAppDomainDelegate) for
17	cross-application domain calls.
18	Every derived class of System.Delegate and System.MulticastDelegate
19	has a constructor and an Invoke method. See the Managed Extensions for C++
20	code example given in the description for System.Delegate.
21	DateTime structure (System)
22	ToUInt64
23	
24	
25	Description

1	Represents an instant in time, typically expressed as a date and time of day.
2	The DateTime value type represents dates and times with values ranging
3	from 12:00:00 AM, 1/1/0001 CE (Common Era) to 11:59:59 PM, 12/31/9999 CE.
4	ToUInt64
5	
6	[C#] public static readonly DateTime MaxValue;
7	[C++] public: static DateTime MaxValue;
8	[VB] Public Shared ReadOnly MaxValue As DateTime
9	[JScript] public static var MaxValue : DateTime;
10	
11	Description
12	A constant representing the largest possible value of DateTime .
13	The value of this constant is 11:59:59 PM, 12/31/9999 CE.
14	ToUInt64
15	
16	[C#] public static readonly DateTime MinValue;
17	[C++] public: static DateTime MinValue;
18	[VB] Public Shared ReadOnly MinValue As DateTime
19	[JScript] public static var MinValue : DateTime;
20	
21	Description
22	A constant representing the smallest possible value of DateTime .
23	The value of this constant is 12:00:00 AM, 1/1/0001 CE.
24	DateTime
25	Example Syntax:

1	ToUInt64
2	
3	[C#] public DateTime(long ticks);
4	[C++] public: DateTime(int64 ticks);
5	[VB] Public Sub New(ByVal ticks As Long)
6	[JScript] public function DateTime(ticks : long); Initializes a new instance of the
7	DateTime structure.
8	
9	Description
10	Initializes a new instance of the DateTime structure to a specified number
11	of ticks. A date and time expressed in 100-nanosecond units.
12	DateTime
13	Example Syntax:
14	ToUInt64
15	
16	[C#] public DateTime(int year, int month, int day);
17	[C++] public: DateTime(int year, int month, int day);
18	[VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal
19	day As Integer)
20	[JScript] public function DateTime(year : int, month : int, day : int);
21	
22	Description
23	Initializes a new instance of the DateTime structure to the specified year,

month, and day.

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The time of day for the resulting **DateTime** is midnight. The year (1 through 9999). The month (1 through 12). The day (1 through the number of days in month). DateTime Example Syntax: ToUInt64 [C#] public DateTime(int year, int month, int day, Calendar calendar); [C++] public: DateTime(int year, int month, int day, Calendar* calendar); [VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal calendar As Calendar) [JScript] public function DateTime(year: int, month: int, day: int, calendar: Calendar); Description Initializes a new instance of the DateTime structure to the specified year, month, and day for the specified calendar. The time of day for the resulting DateTime is midnight. The year (1 through 9999). The month (1 through the number of months in calendar). The day (1 through the number of days in month). The calendar which applies to this DateTime. DateTime Example Syntax: ToUInt64

[C#] public DateTime(int year, int month, int day, int hour, int minute, int second); [C++] public: DateTime(int year, int month, int day, int hour, int minute, int second);

[VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer)

[JScript] public function DateTime(year: int, month: int, day: int, hour: int, minute: int, second: int);

Description

Initializes a new instance of the **DateTime** structure to the specified year, month, day, hour, minute, and second. The year (1 through 9999) The month (1 through 12) The day (1 through the number of days in *month*) The hours (0 through 23) The minutes (0 through 59) The seconds (0 through 59)

DateTime

Example Syntax:

ToUInt64

[C#] public DateTime(int year, int month, int day, int hour, int minute, int second, Calendar calendar);

[C++] public: DateTime(int year, int month, int day, int hour, int minute, int second, Calendar* calendar);

[VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second

As Integer, ByVal calendar As Calendar) [JScript] public function DateTime(year: int, month: int, day: int, hour: int, 2 minute: int, second: int, calendar: Calendar); 3 Description 5 Initializes a new instance of the DateTime structure to the specified year, 6 month, day, hour, minute, and second for the specified calendar. 7 The time of day for the resulting **DateTime** is midnight. The year (1 8 through 9999) The month (1 through the number of months in calendar) The day 9 (1 through the number of days in month) The hours (0 through 23) The minutes (0 10 through 59) The seconds (0 through 59) The calendar which applies to this 11 **DateTime** 12 DateTime 13 Example Syntax: 14 ToUInt64 15 16 [C#] public DateTime(int year, int month, int day, int hour, int minute, int second, 17 int millisecond); 18 [C++] public: DateTime(int year, int month, int day, int hour, int minute, int 19 second, int millisecond); 20 [VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal 21 day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second 22 As Integer, ByVal millisecond As Integer) 23 [JScript] public function DateTime(year: int, month: int, day: int, hour: int, 24

minute: int, second: int, millisecond: int);

Description

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Initializes a new instance of the **DateTime** structure to the specified year, month, day, hour, minute, second, and millisecond. The year (1 through 9999) The month (1 through 12) The day (1 through the number of days in *month*) The hours (0 through 23) The minutes (0 through 59) The seconds (0 through 59) The milliseconds

DateTime

Example Syntax:

ToUInt64

[C#] public DateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, Calendar calendar);

[C++] public: DateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, Calendar* calendar);

[VB] Public Sub New(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal calendar As Calendar)

[JScript] public function DateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, calendar: Calendar);

Description

Initializes a new instance of the **DateTime** structure to the specified year, month, day, hour, minute, second, and millisecond for the specified calendar.

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The time of day for the resulting DateTime is midnight. The year (1 through 9999) The month (1 through the number of months in calendar) The day (1 through the number of days in month) The hours (0 through 23) The minutes (0 through 59) The seconds (0 through 59) The milliseconds The calendar which applies to this System.DateTime Date ToUInt64 [C#] public DateTime Date {get;} [C++] public: __property DateTime get_Date(); [VB] Public ReadOnly Property Date As DateTime [JScript] public function get Date(): DateTime; Description Gets the date component of this instance. Day ToUInt64 [C#] public int Day {get;} [C++] public: __property int get_Day(); [VB] Public ReadOnly Property Day As Integer [JScript] public function get Day(): int; Description

Gets the day of the month represented by this instance.

1	DayOfWeek
2	ToUInt64
3	
4	[C#] public DayOfWeek DayOfWeek {get;}
5	[C++] public:property DayOfWeek get_DayOfWeek();
6	[VB] Public ReadOnly Property DayOfWeek As DayOfWeek
7	[JScript] public function get DayOfWeek() : DayOfWeek;
8	
9	Description
10	Gets the day of the week represented by this instance.
11	DayOfYear
12	ToUInt64
13	
14	[C#] public int DayOfYear {get;}
15	[C++] public:property int get_DayOfYear();
16	[VB] Public ReadOnly Property DayOfYear As Integer
17	[JScript] public function get DayOfYear(): int;
18	
19	Description
20	Gets the day of the year represented by this instance.
21	Hour
22	ToUInt64
23	
24	[C#] public int Hour {get;}
25	[C++] public:property int get_Hour();

1	[VB] Public ReadOnly Property Hour As Integer
2	[JScript] public function get Hour(): int;
3	
4	Description
5	Gets the hour component of the date represented by this instance.
6	Millisecond
7	ToUInt64
8	
9	[C#] public int Millisecond {get;}
10	[C++] public:property int get_Millisecond();
11	[VB] Public ReadOnly Property Millisecond As Integer
12	[JScript] public function get Millisecond(): int;
13	
14	Description
15	Gets the milliseconds component of the date represented by this instance.
16	Minute
17	ToUInt64
18	
19	[C#] public int Minute {get;}
20	[C++] public:property int get_Minute();
21	[VB] Public ReadOnly Property Minute As Integer
22	[JScript] public function get Minute(): int;
23	
24	Description
25	Gets the minute component of the date represented by this instance.

1	Month
2	ToUInt64
3	
4	[C#] public int Month {get;}
5	[C++] public:property int get_Month();
6	[VB] Public ReadOnly Property Month As Integer
7	[JScript] public function get Month(): int;
8	
9	Description
10	Gets the month component of the date represented by this instance.
11	Now
12	ToUInt64
13	
14	[C#] public static DateTime Now {get;}
15	[C++] public:property static DateTime get_Now();
16	[VB] Public Shared ReadOnly Property Now As DateTime
17	[JScript] public static function get Now() : DateTime;
18	
19	Description
20	Gets a DateTime that is the current local time on this computer.
21	The resolution of this property depends on the system timer.
22	Second
23	ToUInt64
24	
25	[C#] public int Second {get;}

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[C++] public: property int get Second();
    [VB] Public ReadOnly Property Second As Integer
    [JScript] public function get Second(): int;
3
4
    Description
           Retrieves the seconds component of the date represented by this instance.
6
           Ticks
7
           ToUInt64
8
9
    [C#] public long Ticks {get;}
10
    [C++] public: property int64 get Ticks();
11
    [VB] Public ReadOnly Property Ticks As Long
12
    [JScript] public function get Ticks(): long;
13
14
    Description
15
           Gets the number of 100-nanosecond ticks that represent the date and time
16
    of this instance.
17
           The value of this property is the number of 100-nanosecond intervals that
18
    have elapsed since 1/1/0001, 12:00am.
19
           TimeOfDay
20
           ToUInt64
21
22
    [C#] public TimeSpan TimeOfDay {get;}
23
    [C++] public: property TimeSpan get_TimeOfDay();
    [VB] Public ReadOnly Property TimeOfDay As TimeSpan
25
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	1	[JScript] public function get TimeOfDay(): TimeSpan;
	2	
	3	Description
	4	Gets the time of day for this instance.
	5	Today
	6	ToUInt64
	7	
	8	[C#] public static DateTime Today {get;}
este esté	9	[C++] public:property static DateTime get_Today();
der deute dere deute deute deute deute	10	[VB] Public Shared ReadOnly Property Today As DateTime
200 200 300 300 300 300	11	[JScript] public static function get Today() : DateTime;
the hand had the than had the the think	12	
	13	Description
	14	Gets the current date.
Ame Sun	15	UtcNow
k L	16	ToUInt64
	17	
	18	[C#] public static DateTime UtcNow {get;}
	19	[C++] public:property static DateTime get_UtcNow();
	20	[VB] Public Shared ReadOnly Property UtcNow As DateTime
	21	[JScript] public static function get UtcNow(): DateTime;
	22	
	23	Description
	24	Gets a DateTime that is the current local time on this computer expressed
	25	as the coordinated universal time (UTC).

1	The resolution of this property depends on the system timer.
2	Year
3	ToUInt64
4	
5	[C#] public int Year {get;}
6	[C++] public:property int get_Year();
7	[VB] Public ReadOnly Property Year As Integer
8	[JScript] public function get Year(): int;
9	
10	Description
11	Gets the year component of the date represented by this instance.
12	Add
13	
14	[C#] public DateTime Add(TimeSpan value);
15	[C++] public: DateTime Add(TimeSpan value);
16	[VB] Public Function Add(ByVal value As TimeSpan) As DateTime
17	[JScript] public function Add(value : TimeSpan) : DateTime;
18	
19	Description
20	Adds the value of the specified TimeSpan instance to the value of this
21	instance.
22	Return Value: A DateTime whose value is the sum of the date and time
23	represented by this instance and the time interval represented by value.
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This method does not change the value of this **DateTime** instance. Instead, a new **DateTime** instance is returned whose value is the result of this operation. A time interval. AddDays [C#] public DateTime AddDays(double value); [C++] public: DateTime AddDays(double value); [VB] Public Function AddDays(ByVal value As Double) As DateTime [JScript] public function AddDays(value : double) : DateTime; Description Adds the specified number of days to the value of this instance. Return Value: A DateTime whose value is the sum of the date and time represented by this instance and the number of days represented by value. This method does not change the value of this **DateTime** instance. Instead, a new DateTime instance is returned whose value is the result of this operation. A number of whole and fractional days. AddHours

19

[C#] public DateTime AddHours(double value);

[C++] public: DateTime AddHours(double value);

[VB] Public Function AddHours(ByVal value As Double) As DateTime

[JScript] public function AddHours(value : double) : DateTime;

Description

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Adds the specified number of hours to the value of this instance.

Return Value: A DateTime whose value is the sum of the date and time represented by this instance and the number of hours represented by value.

This method does not change the value of this **DateTime** instance. Instead, a new **DateTime** instance is returned whose value is the result of this operation. A number of whole and fractional hours.

AddMilliseconds

[C#] public DateTime AddMilliseconds(double value);

[C++] public: DateTime AddMilliseconds(double value);

[VB] Public Function AddMilliseconds(ByVal value As Double) As DateTime

[JScript] public function AddMilliseconds(value : double) : DateTime;

Description

Adds the specified number of milliseconds to the value of this instance.

Return Value: A DateTime whose value is the sum of the date and time represented by this instance and the number of milliseconds represented by value.

This method does not change the value of this **DateTime** instance. Instead, a new **DateTime** instance is returned whose value is the result of this operation. A number of milliseconds.

AddMinutes

[C#] public DateTime AddMinutes(double value);

[C++] public: DateTime AddMinutes(double value);

[VB] Public Function AddMinutes(ByVal value As Double) As DateTime

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[JScript] public function AddMinutes(value : double) : DateTime; Description Adds the specified number of minutes to the value of this instance. Return Value: A DateTime whose value is the sum of the date and time represented by this instance and the number of minutes represented by value. This method does not change the value of this **DateTime** instance. Instead, a new **DateTime** instance is returned whose value is the result of this operation. A number of whole and fractional minutes. AddMonths [C#] public DateTime AddMonths(int months); [C++] public: DateTime AddMonths(int months); [VB] Public Function AddMonths(ByVal months As Integer) As DateTime [JScript] public function AddMonths(months: int): DateTime;

Description

Adds the specified number of months to the value of this instance.

Return Value: A **DateTime** whose value is the sum of the date and time represented by this instance and *months*.

This method does not change the value of this **DateTime** instance. Instead, a new **DateTime** instance is returned whose value is the result of this operation. A number of months.

AddSeconds

25

1 [C#] public DateTime AddSeconds(double value); [C++] public: DateTime AddSeconds(double value); [VB] Public Function AddSeconds(ByVal value As Double) As DateTime [JScript] public function AddSeconds(value : double) : DateTime; 6 Description 7 Adds the specified number of seconds to the value of this instance. 8 Return Value: A **DateTime** whose value is the sum of the date and time 9 represented by this instance and the number of seconds represented by value. 10 This method does not change the value of this **DateTime** instance. Instead, 11 a new **DateTime** instance is returned whose value is the result of this operation. A 12 number of whole and fractional seconds. 13 AddTicks 14 15 [C#] public DateTime AddTicks(long value); 16 [C++] public: DateTime AddTicks(int64 value); [VB] Public Function AddTicks(ByVal value As Long) As DateTime 18 [JScript] public function AddTicks(value : long) : DateTime; 19 20 Description 21 Adds the specified number of ticks to the value of this instance. 22 Return Value: A DateTime whose value is the sum of the date and time 23

represented by this instance and the time represented by value.

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This method does not change the value of this DateTime instance. Instead, 1 a new **DateTime** instance is returned whose value is the result of this operation. A 2 number of 100-nanosecond ticks. 3 AddYears 4 5 [C#] public DateTime AddYears(int value); 6 [C++] public: DateTime AddYears(int value); [VB] Public Function AddYears(ByVal value As Integer) As DateTime [JScript] public function AddYears(value : int) : DateTime; 9 10 Description 11 Adds the specified number of years to the value of this instance. 12 Return Value: A DateTime whose value is the sum of the date and time 13 represented by this instance and the number of years represented by value. 14 This method does not change the value of this **DateTime** instance. Instead, 15 a new **DateTime** instance is returned whose value is the result of this operation. A 16 number of years. 17 Compare 18 19 [C#] public static int Compare(DateTime t1, DateTime t2); 20 [C++] public: static int Compare(DateTime t1, DateTime t2); 21 [VB] Public Shared Function Compare(ByVal t1 As DateTime, ByVal t2 As 22 DateTime) As Integer 23 [JScript] public static function Compare(t1 : DateTime, t2 : DateTime) : int; 24

1	
2	Description
3	Compares two instances of DateTime and returns an indication of their
4	relative values.
5	Return Value: A signed number indicating the relative values of $t1$ and $t2$. The
6	first DateTime. The second DateTime.
7	CompareTo
8	
9	[C#] public int CompareTo(object value);
10	[C++] public:sealed int CompareTo(Object* value);
11	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
12	Integer
13	[JScript] public function CompareTo(value : Object) : int;
14	
15	Description
16	Compares this instance to a specified object and returns an indication of
17	their relative values.
18	Return Value: A signed number indicating the relative values of this instance and
19	value .
20	Any instance of DateTime, regardless of its value, is considered greater
21	than null . An object to compare, or null .
22	DaysInMonth
23	
24	[C#] public static int DaysInMonth(int year, int month);
25	[C++] public: static int DaysInMonth(int year, int month);

1	[VB] Public Shared Function DaysInMonth(ByVal year As Integer, ByVal month
2	As Integer) As Integer
3	[JScript] public static function DaysInMonth(year: int, month: int): int;
4	
5	Description
6	Returns the number of days in the specified month of the specified year.
7	Return Value: The number of days in month for the specified year. The
8	month (a number ranging from 1 to 12).
9	Equals
10	
11	[C#] public override bool Equals(object value);
12	[C++] public: bool Equals(Object* value);
13	[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean
14	[JScript] public override function Equals(value : Object) : Boolean; Returns a
15	value indicating whether an instance of DateTime is equal to a specified object.
16	
17	Description
18	Returns a value indicating whether this instance is equal to a specified
19	object.
20	Return Value: true if value is an instance of DateTime and equals the value of
21	this instance; otherwise, false. An object to compare with this instance.
22	Equals
23	
24	[C#] public static new bool Equals(DateTime t1, DateTime t2);
25	[C++] public: static bool Equals(DateTime t1, DateTime t2);

1	[VB] Shadows Public Shared Function Equals(ByVal t1 As DateTime, ByVal t2
2	As DateTime) As Boolean
3	[JScript] public static hide function Equals(t1 : DateTime, t2 : DateTime) :
4	Boolean;
5	
6	Description
7	Returns a value indicating whether two instances of System.DateTime are
8	equal.
9	Return Value: true if the two DateTime values are equal; otherwise, false. The
10	first DateTime. The second DateTime.
11	FromFileTime
12	
13	[C#] public static DateTime FromFileTime(long fileTime);
14	[C++] public: static DateTime FromFileTime(int64 fileTime);
15	[VB] Public Shared Function FromFileTime(ByVal fileTime As Long) As
16	DateTime
17	[JScript] public static function FromFileTime(fileTime : long) : DateTime;
18	
19	Description
20	Returns a DateTime equivalent to the specified operating system file
21	timestamp.
22	Return Value: A DateTime value representing the date and time of fileTime,
23	adjusted to local time.
24	fileTime is a 64-bit signed integer value representing a Windows file
25	timestamp. The timestamp is the number of 100-nanosecond intervals that have

1	elapsed since 1/1/1601 12:00 AM coordinated universal time (UTC). A Windows
2	file time.
3	FromOADate
4	
5	[C#] public static DateTime FromOADate(double d);
6	[C++] public: static DateTime FromOADate(double d);
7	[VB] Public Shared Function FromOADate(ByVal d As Double) As DateTime
8	[JScript] public static function FromOADate(d : double) : DateTime;
9	
10	Description
11	Returns a DateTime equivalent to the specified OLE Automation Date.
12	Return Value: A DateTime that represents the same date and time as d .
13	d must be a value between negative 657435.0 through positive 2958466.0.
14	It is stored as a double-precision floating point number. An OLE Automation Date
15	value.
16	GetDateTimeFormats
17	
18	[C#] public string[] GetDateTimeFormats();
19	[C++] public: String* GetDateTimeFormats()gc[];
20	[VB] Public Function GetDateTimeFormats() As String()
21	[JScript] public function GetDateTimeFormats(): String[]; Converts the value of
22	this instance to all of the String representations supported by the standard
23	DateTime format specifiers.
24	
25	Description

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Converts the value of this instance to all of the **String** representations supported by the standard **DateTime** format specifiers.

Return Value: A **String** array where each element is the representation of the value of this instance formatted with one of the standard **DateTime** formatting specifiers.

Each element of the return value is formatted using information from the current culture. For more information about culture-specific formatting information for the current culture, see

 $System. Globalization. Culture Info. Current Culture \ .$

GetDateTimeFormats

[C#] public string[] GetDateTimeFormats(char format);
[C++] public: String* GetDateTimeFormats(wchar t format) gc[];

[VB] Public Function GetDateTimeFormats(ByVal format As Char) As String()

[JScript] public function GetDateTimeFormats(format : Char) : String[];

Description

Converts the value of this instance to all of the **String** representations supported by the specified standard **DateTime** format specifier.

Return Value: A **String** array where each element is the representation of the value of this instance formatted with the *format* standard **DateTime** formatting specifier.

Each element of the return value is formatted using information from the current culture. For more information about culture-specific formatting information for the current culture, see

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25

System.Globalization.CultureInfo.CurrentCulture . A Unicode character containing a format specifier.

GetDateTimeFormats

[C#] public string[] GetDateTimeFormats(IFormatProvider provider);

[C++] public: String* GetDateTimeFormats(IFormatProvider* provider) __gc[];

[VB] Public Function GetDateTimeFormats(ByVal provider As IFormatProvider)

As String()

[JScript] public function GetDateTimeFormats(provider : IFormatProvider) :

String[];

Description

Converts the value of this instance to all of the **String** representations supported by the standard **DateTime** format specifiers and the specified culture-specific formatting information.

Return Value: A **String** array where each element is the representation of the value of this instance formatted with one of the standard **DateTime** formatting specifiers.

Each element of the return value is formatted using culture-specific information supplied by *provider*. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information about this instance.

GetDateTimeFormats

[C#] public string[] GetDateTimeFormats(char format, IFormatProvider provider);

1	[C++] public: String* GetDateTimeFormats(wchar_t format, IFormatProvider*
2	provider)gc[];
3	[VB] Public Function GetDateTimeFormats(ByVal format As Char, ByVal
4	provider As IFormatProvider) As String()
5	[JScript] public function GetDateTimeFormats(format : Char, provider :
6	IFormatProvider): String[];
7	
8	Description
9	Converts the value of this instance to all of the String representations
10	supported by the specified standard DateTime format specifier and culture-
11	specific formatting information.
12	Return Value: A String array where each element is the representation of the
13	value of this instance formatted with one of the standard DateTime formatting
14	specifiers.
15	Each element of the return value is formatted using culture-specific
16	information supplied by provider. A Unicode character containing a format
17	specifier. An System.IFormatProvider interface implementation that supplies
18	culture-specific formatting information about this instance.
19	GetHashCode
20	

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

 $[JScript]\ public\ override\ function\ GetHashCode(): int;$

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Description
Returns the hash code for this instance.
Return Value: A 32-bit signed integer hash code.
GetTypeCode
[C#] public TypeCode GetTypeCode();
[C++] public:sealed TypeCode GetTypeCode();
[VB] NotOverridable Public Function GetTypeCode() As TypeCode
[JScript] public function GetTypeCode(): TypeCode;
Description
Returns the TypeCode for value type DateTime.
Return Value: The enumerated constant, System.TypeCode.DateTime.
IsLeapYear
[C#] public static bool IsLeapYear(int year);
[C++] public: static bool IsLeapYear(int year);
[VB] Public Shared Function IsLeapYear(ByVal year As Integer) As Boolean
[JScript] public static function IsLeapYear(year: int): Boolean;
Description
Returns an indication whether the specified year is a leap year.
Return Value: true if the year is a leap year; otherwise, false.

year is specified as a 4-digit base 10 number; for example, 1996. A 4-digit year. op Addition 3 4 [C#] public static DateTime operator +(DateTime d, TimeSpan t); 5 [C++] public: static DateTime op_Addition(DateTime d, TimeSpan t); [VB] returnValue = DateTime.op_Addition(d, t) 7 [JScript] returnValue = d + t; 8 9 Description 10 Adds a specified time interval to a specified date and time, yielding a new 11 date and time. 12 Return Value: A DateTime that is the sum of the values of d and t. A date and 13 time. A time interval. 14 op Equality 15 16 [C#] public static bool operator ==(DateTime d1, DateTime d2); 17 [C++] public: static bool op_Equality(DateTime d1, DateTime d2); 18 [VB] returnValue = DateTime.op_Equality(d1, d2) 19 [JScript] returnValue = d1 == d2; 20 21 Description 22 Determines whether two specified instances of DateTime are equal. 23 Return Value: true if d1 and d2 represent the same date and time; otherwise, false 24 . A DateTime. A DateTime.

op GreaterThan 2 [C#] public static bool operator >(DateTime t1, DateTime t2); 3 [C++] public: static bool op_GreaterThan(DateTime t1, DateTime t2); [VB] returnValue = DateTime.op_GreaterThan(t1, t2) 5 [JScript] returnValue = t1 > t2; 7 Description 8 Determines whether one specified DateTime is greater than another 9 specified DateTime. 10 Return Value: true if t1 is greater than t2; otherwise, false. A DateTime. A 11 DateTime. 12 op GreaterThanOrEqual 13 14 [C#] public static bool operator >=(DateTime t1, DateTime t2); 15 [C++] public: static bool op_GreaterThanOrEqual(DateTime t1, DateTime t2); 16 [VB] $returnValue = DateTime.op_GreaterThanOrEqual(t1, t2)$ 17 [JScript] returnValue = $t1 \ge t2$; 18 19 Description 20 Determines whether one specified DateTime is greater than or equal to 21 another specified DateTime. 22 Return Value: true if t1 is greater than or equal to t2; otherwise, false. A 23 DateTime. A DateTime. 24 op Inequality 25

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1
    [C#] public static bool operator !=(DateTime d1, DateTime d2);
    [C++] public: static bool op Inequality(DateTime d1, DateTime d2);
    [VB] returnValue = DateTime.op Inequality(d1, d2)
    [JScript] returnValue = d1 != d2;
6
    Description
7
           Determines whether two specified instances of DateTime are not equal.
8
    Return Value: true if d1 and d2 do not represent the same date and time;
    otherwise, false . A DateTime. A DateTime.
10
           op LessThan
11
12
    [C#] public static bool operator
13
    [C++] public: static bool op LessThan(DateTime t1, DateTime t2);
14
    [VB] returnValue = DateTime.op LessThan(t1, t2)
15
    [JScript] returnValue = t1 < t2;
16
17
    Description
18
           Determines whether one specified DateTime is less than another specified
19
    DateTime.
20
    Return Value: true if t1 is less than t2; otherwise, false. A DateTime. A
21
    DateTime.
22
           op LessThanOrEqual
23
24
    [C#] public static bool operator <=(DateTime t1, DateTime t2);
```

```
[C++] public: static bool op_LessThanOrEqual(DateTime t1, DateTime t2);
    [VB] returnValue = DateTime.op LessThanOrEqual(t1, t2)
    [JScript] returnValue = t1 <= t2;
 3
    Description
 5
           Determines whether one specified DateTime is less than or equal to
 6
    another specified DateTime.
 7
    Return Value: true if t1 is less than or equal to t2; otherwise, false. A DateTime.
 8
    A DateTime.
 9
           op Subtraction
10
11
    [C#] public static TimeSpan operator -(DateTime d1, DateTime d2);
12
    [C++] public: static TimeSpan op Subtraction(DateTime d1, DateTime d2);
13
    [VB] returnValue = DateTime.op Subtraction(d1, d2)
14
    [JScript] returnValue = d1 - d2;
15
16
    Description
17
           Subtracts a specified date and time from another specified date and time,
18
    yielding a time interval.
19
    Return Value: A System. TimeSpan that is the time interval between d1 and d2;
20
    that is, d1 minus d2. A DateTime (the minuend). A DateTime (the subtrahend).
21
           op Subtraction
22
23
    [C#] public static DateTime operator -(DateTime d, TimeSpan t);
24
    [C++] public: static DateTime op_Subtraction(DateTime d, TimeSpan t);
```

1	[VB] returnValue = DateTime.op_Subtraction(d, t)
2	[JScript] returnValue = d - t; Subtracts a specified System.DateTime or
3	System.TimeSpan instance from a specified System.DateTime instance.
4	
5	Description
6	Subtracts a specified time interval from a specified date and time, yielding a
7	new date and time.
8	Return Value: A DateTime whose value is the value of d minus the value of t .
9	This method subtracts the ticks values of t from the ticks value of d . A
10	DateTime. A System.TimeSpan.
11	Parse
12	
13	[C#] public static DateTime Parse(string s);
14	[C++] public: static DateTime Parse(String* s);
15	[VB] Public Shared Function Parse(ByVal s As String) As DateTime
16	[JScript] public static function Parse(s : String) : DateTime; Converts the specified
17	String representation of a date and time to its DateTime equivalent.
18	
19	Description
20	Converts the specified String representation of a date and time to its
21	DateTime equivalent.
22	Return Value: A DateTime equivalent to the date and time contained in s .
23	This method attempts to parse s completely and avoid throwing
24	FormatException. It ignores unrecognized data if possible and fills in missing
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month, day, and year information with the current time. A System.String containing a date and time to convert.

Parse

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[C#] public static DateTime Parse(string s, IFormatProvider provider);

[C++] public: static DateTime Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As DateTime

[JScript] public static function Parse(s : String, provider : IFormatProvider) :

DateTime;

Description

Converts the specified **String** representation of a date and time to its DateTime equivalent using the specified culture-specific format information. Return Value: A **DateTime** equivalent to the date and time contained in s as specified by provider.

This method attempts to parse s completely and avoid throwing FormatException. It ignores unrecognized data if possible and fills in missing month, day, and year information with the current time. A System.String containing a date and time to convert. An System.IFormatProvider object that supplies culture-specific format information about s.

Parse

DateTimeStyles styles);

[C#] public static DateTime Parse(string s, IFormatProvider provider,

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1	[C++] public: static DateTime Parse(String* s, IFormatProvider* provider,
2	DateTimeStyles styles);
3	[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As
4	IFormatProvider, ByVal styles As DateTimeStyles) As DateTime
5	[JScript] public static function Parse(s : String, provider : IFormatProvider, styles :
6	DateTimeStyles): DateTime;
7	
8	Description
9	Converts the specified String representation of a date and time to its
10	DateTime equivalent using the specified culture-specific format information and
11	formatting style.
12	Return Value: A DateTime equivalent to the date and time contained in s as
13	specified by provider and styles.
14	This method attempts to parse s completely and avoid throwing
15	FormatException . It ignores unrecognized data if possible and fills in missing
16	month, day, and year information with the current time. A System.String
17	containing a date and time to convert. An System.IFormatProvider interface
18	implementation that supplies culture-specific formatting information about s. The
10	combination of one or more System. Globalization. Date Time Styles constants that

ParseExact

indicate the permitted format of s.

[C#] public static DateTime ParseExact(string s, string format, IFormatProvider provider);

 $[C++]\ public:\ static\ DateTime\ ParseExact(String*\ s,\ String*\ format,$

IFormatProvider* provider);

[VB] Public Shared Function ParseExact(ByVal s As String, ByVal format As String, ByVal provider As IFormatProvider) As DateTime

[JScript] public static function ParseExact(s: String, format: String, provider:

IFormatProvider): DateTime; Converts the specified String representation of a date and time to its DateTime equivalent. The format of the String representation must match a specified format exactly.

Description

Converts the specified **String** representation of a date and time to its **DateTime** equivalent using the specified format and culture-specific format information. The format of the **String** representation must match the specified format exactly.

Return Value: A **DateTime** equivalent to the date and time contained in s as specified by format and provider.

This method throws **FormatException** if the format of *s* is not exactly as specified by the format pattern in *format*. If *format* consists of a single standard format character, the format pattern that character represents is used. For more information, see the **System.Globalization.DateTimeFormatInfo** topic. A **System.String** containing a date and time to convert. The expected format of *s*. An **System.IFormatProvider** object that supplies culture-specific format information about *s*.

ParseExact

[C#] public static DateTime ParseExact(string s, string format, IFormatProvider

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provider,	DateT	'imeStyle	s style)	,
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[C++] public: static DateTime ParseExact(String* s, String* format,

IFormatProvider* provider, DateTimeStyles style);

[VB] Public Shared Function ParseExact(ByVal s As String, ByVal format As

String, ByVal provider As IFormatProvider, ByVal style As DateTimeStyles) As

DateTime

[JScript] public static function ParseExact(s: String, format: String, provider:

IFormatProvider, style: DateTimeStyles): DateTime;

Description

Converts the specified **String** representation of a date and time to its **DateTime** equivalent using the specified format, culture-specific format information, and style. The format of the **String** representation must match the specified format exactly.

Return Value: A **DateTime** equivalent to the date and time contained in s as specified by format, provider, and style.

This method throws **FormatException** if the format of s is not exactly as specified by the format pattern in *format*. If *format* consists of a single standard format character, the format pattern that character represents is used. For more information, see the **System.Globalization.DateTimeFormatInfo** topic. A **System.String** containing a date and time to convert. The expected format of s. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information about s. The combination of one or more **System.Globalization.DateTimeStyles**constants that indicate the permitted format of s.

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[C#] public static DateTime ParseExact(string s, string[] formats, IFormatProvider provider, DateTimeStyles style);

[C++] public: static DateTime ParseExact(String* s, String* formats __gc[], IFormatProvider* provider, DateTimeStyles style);

[VB] Public Shared Function ParseExact(ByVal s As String, ByVal formats() As String, ByVal provider As IFormatProvider, ByVal style As DateTimeStyles) As DateTime

[JScript] public static function ParseExact(s : String, formats : String[], provider : IFormatProvider, style : DateTimeStyles) : DateTime;

Description

Converts the specified **String** representation of a date and time to its **DateTime** equivalent using the specified array of formats, culture-specific format information, and style. The format of the **String** representation must match at least one of the specified formats exactly.

Return Value: A **DateTime** equivalent to the date and time contained in s as specified by formats, provider, and style.

This method throws **FormatException** if the format of s is not exactly as specified by at least one of the format patterns in *formats*. If an element of *formats* consists of a single standard format character, the format pattern that character represents is used. For more information, see the **System.Globalization.DateTimeFormatInfo** topic. A **System.String** containing

one or more dates and times to convert. An array of expected formats of s. An

1	System.IFormatProvider object that supplies culture-specific format information
2	about s. The combination of one or more
3	System.Globalization.DateTimeStylesconstants that indicate the permitted
4	format of s.
5	Subtract
6	
7	[C#] public TimeSpan Subtract(DateTime value);
8	[C++] public: TimeSpan Subtract(DateTime value);
9	[VB] Public Function Subtract(ByVal value As DateTime) As TimeSpan
10	[JScript] public function Subtract(value : DateTime) : TimeSpan; Subtracts the
11	specified time or duration from this instance.
12	
13	Description
14	Subtracts the specified date and time from this instance.
15	Return Value: A System.TimeSpan interval equal to the date and time
16	represented by this instance minus the date and time represented by value.
17	This method does not change the value of this DateTime instance. Instead,
18	a new TimeSpan instance is returned whose value is the result of this operation. A
19	instance of DateTime.
20	Subtract
21	
22	[C#] public DateTime Subtract(TimeSpan value);
23	[C++] public: DateTime Subtract(TimeSpan value);
24	[VB] Public Function Subtract(ByVal value As TimeSpan) As DateTime
25	[JScript] public function Subtract(value : TimeSpan) : DateTime;

Description

4	Return Value: A new DateTime equal to the date and time represented by this
5	instance minus time interval, value.
6	This method does not change the value of this DateTime instance. Instead,
7	a new DateTime instance is returned whose value is the result of this operation.
8	An instance of System.TimeSpan.
9	IConvertible.ToBoolean
10	
11	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
12	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
13	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
14	Implements IConvertible.ToBoolean
15	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
16	IConvertible.ToByte
17	
18	[C#] byte IConvertible.ToByte(IFormatProvider provider);
19	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
20	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
21	IConvertible.ToByte
22	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
23	IConvertible.ToChar

Subtracts the specified TimeSpan from this instance.

[C#] char IConvertible.ToChar(IFormatProvider provider);

1	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
2	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
3	IConvertible.ToChar
4	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
5	IConvertible.ToDateTime
6	
7	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
8	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
9	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
10	Implements IConvertible.ToDateTime
11	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
12	DateTime;
13	IConvertible.ToDecimal
14	
15	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
16	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
17	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
18	Implements IConvertible.ToDecimal
19	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
20	IConvertible.ToDouble
21	
22	[C#] double IConvertible.ToDouble(IFormatProvider provider);
23	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
24	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
25	

1	Implements IConvertible.ToDouble
2	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
3	IConvertible.ToInt16
4	
5	[C#] short IConvertible.ToInt16(IFormatProvider provider);
6	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
7	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
8	Implements IConvertible.ToInt16
9	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
10	IConvertible.ToInt32
11	
12	[C#] int IConvertible.ToInt32(IFormatProvider provider);
13	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
14	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
15	Implements IConvertible.ToInt32
16	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
17	IConvertible.ToInt64
18	
19	[C#] long IConvertible.ToInt64(IFormatProvider provider);
20	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
21	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
22	IConvertible.ToInt64
23	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
24	IConvertible.ToSByte
25	
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[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
[C++] char IConvertible::ToSByte(IFormatProvider* provider);
[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
Implements IConvertible.ToSByte
[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
IConvertible.ToSingle
[C#] float IConvertible.ToSingle(IFormatProvider provider);
[C++] float IConvertible::ToSingle(IFormatProvider* provider);
[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
Implements IConvertible.ToSingle
[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
IConvertible.ToType
[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
As Object Implements IConvertible.ToType
[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
Object;
IConvertible.ToUInt16
[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);

1	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
2	Implements IConvertible.ToUInt16
3	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
4	IConvertible.ToUInt32
5	
6	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
7	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
8	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
9	Implements IConvertible.ToUInt32
10	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
11	IConvertible.ToUInt64
12	
13	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
14	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
15	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
16	Implements IConvertible.ToUInt64
17	[JScript] function IConvertible.ToUInt64(provider: IFormatProvider): UInt64;
18	ToFileTime
19	
20	[C#] public long ToFileTime();
21	[C++] public:int64 ToFileTime();
22	[VB] Public Function ToFileTime() As Long
23	[JScript] public function ToFileTime(): long;
24	
25	Description

Converts the value of this instance to the format of the local system file 1 time. 2 Return Value: The value of this DateTime in the format of the local system file 3 time. 4 A system file time is a 64-bit unsigned value representing the date and time 5 as the number of 100-nanosecond intervals that have elapsed since 1/1/1601 12:00 6 AM. 7 **ToLocalTime** 8 9 [C#] public DateTime ToLocalTime(); 10 [C++] public: DateTime ToLocalTime(); 11 [VB] Public Function ToLocalTime() As DateTime 12 $[JScript]\ public\ function\ ToLocalTime(): DateTime;$ 13 14 Description 15 Converts the current coordinated universal time (UTC) to local time. 16 Return Value: The DateTime equivalent to the current UTC time, adjusted to the 17 local time zone and daylight saving time. 18 This method always uses the local time zone when making calculations. 19 **ToLongDateString** 20 21 [C#] public string ToLongDateString(); 22 [C++] public: String* ToLongDateString(); [VB] Public Function ToLongDateString() As String 24 [JScript] public function ToLongDateString(): String; 25

Description

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Converts the date denoted by this instance to its equivalent long date **String** representation.

Return Value: A **String** containing the name of the day of the week, the name of the month, the numeric day of the month, and the year equivalent to the date value of this instance.

The value of this instance is formatted using the long date format character, 'D'.

ToLongTimeString

[C#] public string ToLongTimeString();

[C++] public: String* ToLongTimeString();

[VB] Public Function ToLongTimeString() As String

[JScript] public function ToLongTimeString(): String;

Description

Converts the time denoted by this instance to its equivalent long time **String** representation.

Return Value: A **String** containing the name of the day of the week, the name of the month, the numeric day of the hours, minutes, and seconds equivalent to the time value of this instance.

The value of this instance is formatted using the long time format character, 'T'.

ToOADate

1 [C#] public double ToOADate(); 2 [C++] public: double ToOADate(); 3 [VB] Public Function ToOADate() As Double 4 [JScript] public function ToOADate() : double; 5 6 Description 7 Converts the value of this instance to the equivalent OLE Automation date. 8 Return Value: A double-precision floating point number that contains an OLE 9 Automation date equivalent to the value of this instance. 10 An OLE Automation date is implemented as a floating-point number whose 11 value is the number of days from midnight, 30 December 1899. For example, 12 midnight, 31 December 1899 is represented by 1.0; 6 AM, 1 January 1900 is 13 represented by 2.25; midnight, 29 December 1899 represented by -1.0; and 6 AM, 14 29 December 1899 represented by -1.25. 15 **ToShortDateString** 16 17 [C#] public string ToShortDateString(); 18 [C++] public: String* ToShortDateString(); 19 [VB] Public Function ToShortDateString() As String 20 [JScript] public function ToShortDateString(): String; 21 22 Description 23 Converts the date denoted by this instance to its equivalent short date 24

String representation.

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'd'.

Return Value: A **String** containing the numeric month, the numeric day of the month, and the year equivalent to the date value of this instance.

The value of this instance is formatted using the short date format character,

ToShortTimeString

[C#] public string ToShortTimeString();

[C++] public: String* ToShortTimeString();

[VB] Public Function ToShortTimeString() As String

[JScript] public function ToShortTimeString(): String;

Description

Converts the time denoted by this instance to its equivalent short time **String** representation.

Return Value: A **String** containing the name of the day of the week, the name of the month, the numeric day of the hours, minutes, and seconds equivalent to the time value of this instance.

The value of this instance is formatted using the short time format character, 't'.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the value of this

lee@hayes pilc 509-324-9256 557 MS1-862US.APP

instance to its equivalent String representation.

Description

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Converts the value of this instance to its equivalent String.

Return Value: A String representation of value of this instance.

The value of this instance is formatted using the general format specifier, 'G', as described in the topic. The return value is of the following form:

MM/dd/yyyy HH:mm:ss The items in the return value are as follows.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: A **String** representation of value of this instance as specified by provider.

This instance is formatted with the general format specifier, 'G'. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

1	
2	[C#] public string ToString(string format);
3	[C++] public: String* ToString(String* format);
4	[VB] Public Function ToString(ByVal format As String) As String
5	[JScript] public function ToString(format : String) : String;
6	
7	Description
8	Converts the value of this instance to its equivalent String representation
9	using the specified format.
10	Return Value: A String representation of value of this instance as specified by
11	format.
12	The format parmeter should contain either a format specifier character or a
13	custom format pattern. For more information, see the summary page for
14	System.Globalization.DateTimeFormatInfo . A format string.
15	ToString
16	
17	[C#] public string ToString(string format, IFormatProvider provider);
18	[C++] public:sealed String* ToString(String* format, IFormatProvider*
19	provider);
20	[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal
21	provider As IFormatProvider) As String
22	[JScript] public function ToString(format : String, provider : IFormatProvider) :
23	String;
24	
25	Description

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Converts the value of this instance to its equivalent **String** representation using the specified format and culture-specific format information.

Return Value: A **String** representation of value of this instance as specified by format and provider.

The format parameter should contain either a format specifier character or a custom format pattern. For more information, see the summary page for System.Globalization.DateTimeFormatInfo . A format string. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToUniversalTime

[C#] public DateTime ToUniversalTime();

[C++] public: DateTime ToUniversalTime();

[VB] Public Function ToUniversalTime() As DateTime

[JScript] public function ToUniversalTime(): DateTime;

Description

Converts the current local time to coordinated universal time (UTC).

Return Value: The UTC DateTime equivalent to the current local time.

The UTC time is equal to the local time minus the UTC offset. For more information about the UTC offset, see

 $System. Time Zone. Get UtcOffset (System. Date Time) \ . \\$

DayOfWeek enumeration (System)

ToUniversalTime

2 Description 3 Specifies the day of the week. 4 The DayOfWeek enumeration represents the day of the week in calendars 5 that have seven days per week. This enumeration ranges from zero, indicating 6 Sunday, to six, indicating Saturday. 7 **ToUniversalTime** 8 9 [C#] public const DayOfWeek Friday; 10 [C++] public: const DayOfWeek Friday; 11 [VB] Public Const Friday As DayOfWeek 12 [JScript] public var Friday : DayOfWeek; 13 14 Description 15 Indicates Friday. 16 ToUniversalTime 17 18 [C#] public const DayOfWeek Monday; 19 [C++] public: const DayOfWeek Monday; 20 [VB] Public Const Monday As DayOfWeek 21 [JScript] public var Monday : DayOfWeek; 22 23 Description 24

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Indicates Monday.

1	ToUniversalTime
2	
3	[C#] public const DayOfWeek Saturday;
4	[C++] public: const DayOfWeek Saturday;
5	[VB] Public Const Saturday As DayOfWeek
6	[JScript] public var Saturday : DayOfWeek;
7	
8	Description
9	Indicates Saturday.
10	ToUniversalTime
11	
12	[C#] public const DayOfWeek Sunday;
13	[C++] public: const DayOfWeek Sunday;
14	[VB] Public Const Sunday As DayOfWeek
15	[JScript] public var Sunday : DayOfWeek;
16	
17	Description
18	Indicates Sunday.
19	ToUniversalTime
20	
21	[C#] public const DayOfWeek Thursday;
22	[C++] public: const DayOfWeek Thursday;
23	[VB] Public Const Thursday As DayOfWeek
24	[JScript] public var Thursday : DayOfWeek;

1	
2	Description
3	Indicates Thursday.
4	ToUniversalTime
5	
6	[C#] public const DayOfWeek Tuesday;
7	[C++] public: const DayOfWeek Tuesday;
8	[VB] Public Const Tuesday As DayOfWeek
9	[JScript] public var Tuesday : DayOfWeek;
10	
11	Description
12	Indicates Tuesday.
13	ToUniversalTime
14	
15	[C#] public const DayOfWeek Wednesday;
16	[C++] public: const DayOfWeek Wednesday;
17	[VB] Public Const Wednesday As DayOfWeek
18	[JScript] public var Wednesday : DayOfWeek;
19	
20	Description
21	Indicates Wednesday.
22	DBNull class (System)
23	ToString
24	
25	

Description

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Represents a null value.

This class is used to indicate the absence of a known value, typically in a database application.

ToString

[C#] public static readonly DBNull Value;

[C++] public: static DBNull* Value;

[VB] Public Shared ReadOnly Value As DBNull

[JScript] public static var Value : DBNull;

Description

Represents the sole instance of the System.DBNull class.

System.DBNull is a singleton class, which means only this instance of this class can exist.

GetObjectData

[C#] public void GetObjectData(SerializationInfo info, StreamingContext context);

[C++] public: __sealed void GetObjectData(SerializationInfo* info,

StreamingContext context);

[VB] NotOverridable Public Sub GetObjectData(ByVal info As SerializationInfo,

ByVal context As StreamingContext)

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[JScript] public function GetObjectData(info: SerializationInfo, context: StreamingContext); Description Implements the System.Runtime.Serialization.ISerializable interface and returns the data needed to serialize the System.DBNull object. A System.Runtime.Serialization.SerializationInfo object containing information required to serialize the System.DBNull object. A System.Runtime.Serialization.StreamingContext object containing the source and destination of the serialized stream associated with the System.DBNull object. GetTypeCode [C#] public TypeCode GetTypeCode(); [C++] public: __sealed TypeCode GetTypeCode(); [VB] NotOverridable Public Function GetTypeCode() As TypeCode 15 [JScript] public function GetTypeCode(): TypeCode; 16 17 Description 18 Gets the System.TypeCode value for System.DBNull. 19 Return Value: The System.TypeCode value for System.DBNull, which is 20 System.TypeCode.DBNull. 21 IConvertible.ToBoolean 22 23 [C#] bool IConvertible.ToBoolean(IFormatProvider provider); 24 [C++] bool IConvertible::ToBoolean(IFormatProvider* provider);

1	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
2	Implements IConvertible.ToBoolean
3	[JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean;
4	IConvertible.ToByte
5	
6	[C#] byte IConvertible.ToByte(IFormatProvider provider);
7	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
8	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
9	IConvertible.ToByte
10	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
11	IConvertible.ToChar
12	
13	[C#] char IConvertible.ToChar(IFormatProvider provider);
14	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
15	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
16	IConvertible.ToChar
17	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
18	IConvertible.ToDateTime
19	
20	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
21	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
22	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
23	Implements IConvertible.ToDateTime
24	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
25	DateTime;

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C#] decimal IConve	rtible.ToDecimal(IF	ormatProvider	provider);
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[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);

[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal

Implements IConvertible.ToDecimal

[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal; IConvertible.ToDouble

[C#] double IConvertible.ToDouble(IFormatProvider provider);

[C++] double IConvertible::ToDouble(IFormatProvider* provider);

[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double

Implements IConvertible.ToDouble

 $[JScript]\ function\ IConvertible. To Double (provider: IFormat Provider): double;$

IConvertible.ToInt16

[C#] short IConvertible.ToInt16(IFormatProvider provider);

[C++] short IConvertible::ToInt16(IFormatProvider* provider);

[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short

Implements IConvertible.ToInt16

[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;

IConvertible.ToInt32

[C#] int IConvertible.ToInt32(IFormatProvider provider);

[C++] int IConvertible::ToInt32(IFormatProvider* provider);

1	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
2	Implements IConvertible.ToInt32
3	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
4	IConvertible.ToInt64
5	
6	[C#] long IConvertible.ToInt64(IFormatProvider provider);
7	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
8	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
9	IConvertible.ToInt64
10	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
11	IConvertible.ToSByte
12	
13	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
14	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
15	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
16	Implements IConvertible.ToSByte
17	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
18	IConvertible.ToSingle
19	
20	[C#] float IConvertible.ToSingle(IFormatProvider provider);
21	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
22	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
23	Implements IConvertible.ToSingle
24	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
25	IConvertible.ToType

¹	
2	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
3	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
4	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider
5	As Object Implements IConvertible.ToType
6	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
7	Object;
8	IConvertible.ToUInt16
9	
10	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
11	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
12	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
13	Implements IConvertible.ToUInt16
14	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
15	IConvertible.ToUInt32
16	
17	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
18	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
19	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
20	Implements IConvertible.ToUInt32
21	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
22	IConvertible.ToUInt64
23	
24	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
25	[C++] unsigned int64 [Convertible::ToUInt64(IFormatProvider* provider);

1	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
2	Implements IConvertible.ToUInt64
3	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
4	ToString
5	
6	[C#] public override string ToString();
7	[C++] public: String* ToString();
8	[VB] Overrides Public Function ToString() As String
9	[JScript] public override function ToString(): String; Returns an empty string.
10	
11	Description
12	Returns an empty string (System.String.Empty).
13	Return Value: An empty string (System.String.Empty).
14	ToString
15	
16	[C#] public string ToString(IFormatProvider provider);
17	[C++] public:sealed String* ToString(IFormatProvider* provider);
18	[VB] NotOverridable Public Function ToString(ByVal provider As
19	IFormatProvider) As String
20	[JScript] public function ToString(provider : IFormatProvider) : String;
21	
22	Description
23	Returns an empty string using the specified System.IFormatProvider.
24	Return Value: An empty string (System.String.Empty). The
25	System.IFormatProvider to be used to format the string.

Decimal structure (System) **ToString** Description 5 Represents a decimal number. 6 The Decimal value type represents decimal numbers ranging from positive 7 79,228,162,514,264,337,593,543,950,335 to negative 8 79,228,162,514,264,337,593,543,950,335. The **Decimal** value type is appropriate 9 for financial calculations requiring large numbers of significant integral and 10 fractional digits and no round-off errors. 11 **ToString** 12 13 [C#] public static readonly decimal MaxValue; 14 [C++] public: static Decimal MaxValue; 15 [VB] Public Shared ReadOnly MaxValue As Decimal 16 [JScript] public static var MaxValue : Decimal; 17 18 Description 19 A constant representing the largest possible value of **Decimal**. 20 The value of this constant is positive 21 $79,\!228,\!162,\!514,\!264,\!337,\!593,\!543,\!950,\!335.$ 22 **ToString** 23 24 [C#] public static readonly decimal MinusOne;

1	[C++] public: static Decimal MinusOne;
2	[VB] Public Shared ReadOnly MinusOne As Decimal
3	[JScript] public static var MinusOne : Decimal;
4	
5	Description
6	A constant representing the number, negative one.
7	ToString
8	
9	[C#] public static readonly decimal MinValue;
10	[C++] public: static Decimal MinValue;
11	[VB] Public Shared ReadOnly MinValue As Decimal
12	[JScript] public static var MinValue : Decimal;
13	
14	Description
15	A constant representing the smallest possible value of Decimal .
16	The value of this constant is negative
17	79,228,162,514,264,337,593,543,950,335.
18	ToString
19	
20	[C#] public static readonly decimal One;
21	[C++] public: static Decimal One;
22	[VB] Public Shared ReadOnly One As Decimal
23	[JScript] public static var One : Decimal;
24	

A constant representing the number, one. **ToString** 2 3 [C#] public static readonly decimal Zero; [C++] public: static Decimal Zero; [VB] Public Shared ReadOnly Zero As Decimal [JScript] public static var Zero : Decimal; 7 8 Description 9 A constant representing the number, zero. 10 Decimal 11 Example Syntax: 12 **ToString** 13 14 [C#] public Decimal(double value); 15 [C++] public: Decimal(double value); 16 [VB] Public Sub New(ByVal value As Double) 17 [JScript] public function Decimal(value : double); 18 19 Description 20 Initializes a new instance of Decimal to the value of the specified double-21 precision floating point number. The value to represent as a Decimal. Decimal 23 Example Syntax: 24 **ToString** 25

1	
2	[C#] public Decimal(int value);
3	[C++] public: Decimal(int value);
4	[VB] Public Sub New(ByVal value As Integer)
5	[JScript] public function Decimal(value: int); Initializes a new instance of
6	Decimal .
7	
8	Description
9	Initializes a new instance of Decimal to the value of the specified 32-bit
10	signed integer. The value to represent as a Decimal.
11	Decimal
12	Example Syntax:
13	ToString
14	
15	[C#] public Decimal(int[] bits);
16	[C++] public: Decimal(int bitsgc[]);
17	[VB] Public Sub New(ByVal bits() As Integer)
18	[JScript] public function Decimal(bits : int[]);
19	
20	Description
21	Initializes a new instance of Decimal to a decimal value represented in
22	binary and contained in a specified array.
23	The binary representation of a Decimal number consists of a 1-bit sign, a
24	96-bit integer number, and a scaling factor used to divide the integer number and
25	specify what portion of it is a decimal fraction. The scaling factor is implicitly the

1	number 10, raised to an exponent ranging from 0 to 28. An array of 32-bit signed
2	integers containing a representation of a decimal value.
3	Decimal
4	Example Syntax:
5	ToString
6	
7	[C#] public Decimal(long value);
8	[C++] public: Decimal(int64 value);
9	[VB] Public Sub New(ByVal value As Long)
10	[JScript] public function Decimal(value : long);
11	
12	Description
13	Initializes a new instance of Decimal to the value of the specified 64-bit
14	signed integer. The value to represent as a Decimal .
15	Decimal
16	Example Syntax:
17	ToString
18	
19	[C#] public Decimal(float value);
20	[C++] public: Decimal(float value);
21	[VB] Public Sub New(ByVal value As Single)
22	[JScript] public function Decimal(value : float);
23	
24	Description
25	

1 Initializes a new instance of Decimal to the value of the specified singleprecision floating point number. The value to represent as a Decimal. 2 Decimal 3 Example Syntax: **ToString** [C#] public Decimal(uint value); 7 [C++] public: Decimal(unsigned int value); 8 [VB] Public Sub New(ByVal value As UInt32) 9 [JScript] public function Decimal(value : UInt32); 10 11 Description 12 Initializes a new instance of **Decimal** to the value of the specified 32-bit 13 unsigned integer. The value to represent as a Decimal. 14 Decimal 15 Example Syntax: 16 **ToString** 17 18 [C#] public Decimal(ulong value); 19 [C++] public: Decimal(unsigned __int64 value); 20 [VB] Public Sub New(ByVal value As UInt64) 21 [JScript] public function Decimal(value : UInt64); 22 23 Description 24 25

Initializes a new instance of **Decimal** to the value of the specified 64-bit unsigned integer. The value to represent as a **Decimal**.

Decimal

Example Syntax:

ToString

[C#] public Decimal(int lo, int mid, int hi, bool isNegative, byte scale); [C++] public: Decimal(int lo, int mid, int hi, bool isNegative, unsigned char scale);

[VB] Public Sub New(ByVal lo As Integer, ByVal mid As Integer, ByVal hi As Integer, ByVal isNegative As Boolean, ByVal scale As Byte)

[JScript] public function Decimal(lo: int, mid: int, hi: int, isNegative: Boolean, scale: Byte);

Description

Initializes a new instance of **Decimal** from parameters specifying the instance's constituent parts.

The binary representation of a **Decimal** number consists of a 1-bit sign, a 96-bit integer number, and a scaling factor used to divide the integer number and specify what portion of it is a decimal fraction. The scaling factor is implicitly the number 10, raised to an exponent ranging from 0 to 28. The low 32 bits of a 96-bit integer. The middle 32 bits of a 96-bit integer. The high 32 bits of a 96-bit integer. The sign; 1 is negative, 0 is positive. A power of 10 ranging from 0 to 28.

Add

1	
2	[C#] public static decimal Add(decimal d1, decimal d2);
3	[C++] public: static Decimal Add(Decimal d1, Decimal d2);
4	[VB] Public Shared Function Add(ByVal d1 As Decimal, ByVal d2 As Decimal)
5	As Decimal
6	[JScript] public static function Add(d1 : Decimal, d2 : Decimal) : Decimal;
7	
8	Description
9	Adds two specified Decimal values.
10	Return Value: A Decimal value that is the sum of d1 and d2. A Decimal. A
11	Decimal.
12	Compare
13	
14	[C#] public static int Compare(decimal d1, decimal d2);
15	[C++] public: static int Compare(Decimal d1, Decimal d2);
16	[VB] Public Shared Function Compare(ByVal d1 As Decimal, ByVal d2 As
17	Decimal) As Integer
18	[JScript] public static function Compare(d1 : Decimal, d2 : Decimal) : int;
19	
20	Description
21	Compares two specified Decimal values.
22	Return Value: A signed number indicating the relative values of $d1$ and $d2$. A
23	Decimal. A Decimal.
24	CompareTo
25	

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1	
2	[C#] public int CompareTo(object value);
3	[C++] public:sealed int CompareTo(Object* value);
4	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
5	Integer
6	[JScript] public function CompareTo(value : Object) : int;
7	
8	Description
9	Compares this instance to a specified Object .
10	Return Value: A signed number indicating the relative values of this instance and
11	value .
12	Any instance of Decimal , regardless of its value, is considered greater than
13	null . An System.Object or null.
14	Divide
15	
16	[C#] public static decimal Divide(decimal d1, decimal d2);
17	[C++] public: static Decimal Divide(Decimal d1, Decimal d2);
18	[VB] Public Shared Function Divide(ByVal d1 As Decimal, ByVal d2 As
19	Decimal) As Decimal
20	[JScript] public static function Divide(d1 : Decimal, d2 : Decimal) : Decimal;
21	
22	Description
23	Divides two specified Decimal values.
24	Return Value: The Decimal that is the result of dividing $d1$ by $d2$. A Decimal
25	(the dividend). A Decimal (the divisor).

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1	Equals
2	
3	[C#] public override bool Equals(object value);
4	[C++] public: bool Equals(Object* value);
5	[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean
6	[JScript] public override function Equals(value : Object) : Boolean; Returns a
7	value indicating whether two instances of Decimal are equal.
8	
9	Description
10	Returns a value indicating whether this instance and a specified Object are
11	equal.
12	Return Value: true if value is a Decimal and equal to this instance; otherwise,
13	false . An System.Object.
14	Equals
15	
16	[C#] public static new bool Equals(decimal d1, decimal d2);
17	[C++] public: static bool Equals(Decimal d1, Decimal d2);
18	[VB] Shadows Public Shared Function Equals(ByVal d1 As Decimal, ByVal d2
19	As Decimal) As Boolean
20	[JScript] public static hide function Equals(d1 : Decimal, d2 : Decimal) : Boolean
21	
22	Description
23	Returns a value indicating whether two specified instances of Decimal are
24	equal.

2

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Return Value: true if d1 and d2 are equal; otherwise, false. A Decimal. A Decimal. Floor [C#] public static decimal Floor(decimal d); [C++] public: static Decimal Floor(Decimal d); 6 [VB] Public Shared Function Floor(ByVal d As Decimal) As Decimal 7 [JScript] public static function Floor(d : Decimal) : Decimal; 8 9 Description 10 Rounds a specified **Decimal** number to the next lower whole number. 11 Return Value: If d has a fractional part, the next whole Decimal number towards 12 negative infinity that is less than d. -or- If d doesn't have a fractional part, d is 13 returned unchanged. A Decimal. 14 FromOACurrency 15 16 [C#] public static decimal FromOACurrency(long cy); 17 [C++] public: static Decimal FromOACurrency(__int64 cy); [VB] Public Shared Function FromOACurrency(ByVal cy As Long) As Decimal 19 [JScript] public static function FromOACurrency(cy:long): Decimal; 20 21 Description 22 Converts the specified 64-bit signed integer, which contains an OLE 23 Automation Currency value, to the equivalent Decimal value. 24

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Return Value: A Decimal that contains the equivalent of cy. An OLE Automation Currency value. **GetBits** [C#] public static int[] GetBits(decimal d); [C++] public: static int GetBits(Decimal d) __gc[]; [VB] Public Shared Function GetBits(ByVal d As Decimal) As Integer() [JScript] public static function GetBits(d: Decimal): int[]; Description Converts the value of a specified instance of Decimal to its equivalent binary representation, and returns that representation in an array of 32-bit signed integers. Return Value: A 32-bit integer array with four elements that contain the binary representation of d. The binary representation of a Decimal number consists of a 1-bit sign, a 96-bit integer number, and a scaling factor used to divide the integer number and specify what portion of it is a decimal fraction. The scaling factor is implicitly the number 10, raised to an exponent ranging from 0 to 28. A Decimal value. GetHashCode [C#] public override int GetHashCode(); [C++] public: int GetHashCode(); [VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode(): int;

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Description Returns the hash code for this instance. Return Value: A 32-bit signed integer hash code. GetTypeCode 5 6 [C#] public TypeCode GetTypeCode(); 7 [C++] public: sealed TypeCode GetTypeCode(); 8 [VB] NotOverridable Public Function GetTypeCode() As TypeCode [JScript] public function GetTypeCode(): TypeCode; 10 11 Description 12 Returns the $\ensuremath{\textbf{TypeCode}}$ for value type $\ensuremath{\textbf{Decimal}}$. 13 $Return\ Value:$ The enumerated constant, System. Type Code. Decimal. 14 Multiply 15 16 [C#] public static decimal Multiply(decimal d1, decimal d2); 17 [C++] public: static Decimal Multiply(Decimal d1, Decimal d2); 18 [VB] Public Shared Function Multiply(ByVal d1 As Decimal, ByVal d2 As 19 Decimal) As Decimal 20 [JScript] public static function Multiply(d1 : Decimal, d2 : Decimal) : Decimal; 21 22 Description 23 24 25

1	Multiplies two specified Decimal values.
2	Return Value: A Decimal that is the result of multiplying $d1$ and $d2$. A Decimal
3	(the multiplicand). A Decimal (the multiplier).
4	Negate
5	
6	[C#] public static decimal Negate(decimal d);
7	[C++] public: static Decimal Negate(Decimal d);
8	[VB] Public Shared Function Negate(ByVal d As Decimal) As Decimal
9	[JScript] public static function Negate(d: Decimal): Decimal;
10	
11	Description
12	Negates the value of a specified Decimal .
13	Return Value: A Decimal with the value of d , but the opposite sign.
14	The Negate method returns the negative of the specified Decimal value. For
15	example: If d is non-zero, the result is $-d$. A Decimal .
16	op_Addition
17	
18	[C#] public static decimal operator +(decimal d1, decimal d2);
19	[C++] public: static Decimal op_Addition(Decimal d1, Decimal d2);
20	[VB] returnValue = Decimal.op_Addition(d1, d2)
21	[JScript] returnValue = d1 + d2;
22	
23	Description
24	Adds two specified Decimal values.
25	Return Value: The Decimal result of adding $d1$ and $d2$. A Decimal . A Decimal .

1	op_Decrement
2	
3	[C#] public static decimal operator(decimal d);
4	[C++] public: static Decimal op_Decrement(Decimal d);
5	[VB] returnValue = Decimal.op_Decrement(d)
6	[JScript] returnValue = d;
7	
8	Description
9	Decrements the Decimal operand by 1.
10	Return Value: The value of d decremented by 1. The Decimal operand.
11	op_Division
12	
13	[C#] public static decimal operator /(decimal d1, decimal d2);
14	[C++] public: static Decimal op_Division(Decimal d1, Decimal d2);
15	[VB] returnValue = Decimal.op_Division(d1, d2)
16	[JScript] returnValue = d1 / d2;
17	
18	Description
19	Divides two specified Decimal values.
20	Return Value: The Decimal result of $d1$ by $d2$. A Decimal (the dividend). A
21	Decimal (the divisor).
22	op_Equality
23	
24	[C#] public static bool operator ==(decimal d1, decimal d2);
25	[C++] public: static bool op_Equality(Decimal d1, Decimal d2);

```
[VB] returnValue = Decimal.op_Equality(d1, d2)
    [JScript] returnValue = d1 == d2;
2
3
    Description
4
           Returns a value indicating whether two instances of Decimal are equal.
5
    Return Value: true if d1 and d2 are equal; otherwise, false. A Decimal. A
6
    Decimal.
7
           op Explicit
8
9
    [C#] public static explicit operator ushort(decimal value);
10
    [C++] public: static unsigned short op_Explicit();
11
    [VB] returnValue = Decimal.op_Explicit(value)
12
    [JScript] returnValue = UInt16(value);
13
14
    Description
15
            Converts a Decimal to a 16-bit unsigned integer.
16
    Return Value: A 16-bit unsigned integer that represents the converted Decimal . A
17
     Decimal to convert.
18
            op Explicit
19
20
     [C#] public static explicit operator int(decimal value);
21
     [C++] public: static int op_Explicit();
22
     [VB] returnValue = Decimal.op_Explicit(value)
23
     [JScript] returnValue = Int32(value);
24
25
```

```
Description
2
          Converts a Decimal to a 32-bit signed integer.
3
   Return Value: A 32-bit signed integer that represents the converted Decimal . A
    Decimal to convert.
5
           op Explicit
7
    [C#] public static explicit operator byte(decimal value);
8
    [C++] public: static unsigned char op_Explicit();
9
    [VB] returnValue = Decimal.op_Explicit(value)
10
    [JScript] returnValue = Byte(value);
11
12
    Description
13
           Converts a Decimal to an 8-bit unsigned integer.
14
    Return Value: An 8-bit unsigned integer that represents the converted Decimal . A
15
    Decimal to convert.
            op Explicit
17
18
    [C#] public static explicit operator sbyte(decimal value);
19
     [C++] public: static char op_Explicit();
20
     [VB] returnValue = Decimal.op_Explicit(value)
21
     [JScript] returnValue = SByte(value);
22
23
     Description
24
25
```

1	Converts a Decimal to an 8-bit signed integer.
2	Return Value: An 8-bit signed integer that represents the converted Decimal . A
3	Decimal to convert.
4	op_Explicit
5	
6	[C#] public static explicit operator char(decimal value);
7	[C++] public: staticwchar_t op_Explicit();
8	[VB] returnValue = Decimal.op_Explicit(value)
9	[JScript] returnValue = Char(value);
10	
11	Description
12	Converts a Decimal to a Unicode character.
13	Return Value: A Unicode character that represents the converted Decimal . A
14	Decimal to convert.
15	op_Explicit
16	
17	[C#] public static explicit operator short(decimal value);
18	[C++] public: static short op_Explicit();
19	[VB] returnValue = Decimal.op_Explicit(value)
20	[JScript] returnValue = Int16(value);
21	
22	Description
23	Converts a Decimal to a 16-bit signed integer.
24	Return Value: A 16-bit signed integer that represents the converted Decimal . A
25	Decimal to convert.

1	op_Explicit
2	
3	[C#] public static explicit operator float(decimal value);
4	[C++] public: static float op_Explicit();
5	[VB] returnValue = Decimal.op_Explicit(value)
6	[JScript] returnValue = Single(value);
7	
8	Description
9	Converts a Decimal to a single-precision floating point number.
10	Return Value: A single-precision floating point number that represents the
11	converted Decimal . A Decimal to convert.
12	op_Explicit
13	
14	[C#] public static explicit operator double(decimal value);
15	[C++] public: static double op_Explicit();
16	[VB] returnValue = Decimal.op_Explicit(value)
17	[JScript] returnValue = Double(value);
18	
19	Description
20	Converts a Decimal to a double-precision floating point number.
21	Return Value: A double-precision floating point number that represents the
22	converted Decimal . A Decimal to convert.
23	op_Explicit
24	
25	[C#] public static explicit operator ulong(decimal value);

```
[C++] public: static unsigned int64 op Explicit();
    [VB] returnValue = Decimal.op Explicit(value)
    [JScript] returnValue = UInt64(value);
4
    Description
5
           Converts a Decimal to a 64-bit unsigned integer.
6
    Return Value: A 64-bit unsigned integer that represents the converted Decimal. A
7
    Decimal to convert.
8
           op_Explicit
9
10
    [C#] public static explicit operator uint(decimal value);
11
    [C++] public: static unsigned int op Explicit();
12
    [VB] returnValue = Decimal.op Explicit(value)
13
    [JScript] returnValue = UInt32(value);
14
15
    Description
16
           Converts a Decimal to a 32-bit unsigned integer.
17
    Return Value: A 32-bit unsigned integer that represents the converted Decimal. A
18
    Decimal to convert.
19
           op Explicit
20
21
    [C#] public static explicit operator long(decimal value);
22
    [C++] public: static int64 op Explicit();
23
    [VB] returnValue = Decimal.op Explicit(value)
24
    [JScript] returnValue = Int64(value);
```

1	
2	Description
3	Converts a Decimal to a 64-bit signed integer.
4	Return Value: A 64-bit signed integer that represents the converted Decimal . A
5	Decimal to convert.
6	op_Explicit
7	
8	[C#] public static explicit operator decimal(double value);
9	[C++] public: static Decimal op_Explicit(double value);
10	[VB] returnValue = Decimal.op_Explicit(value)
11	[JScript] returnValue = Decimal(value);
12	
13	Description
14	Converts a double-precision floating point number to a Decimal .
15	Return Value: A Decimal that represents the converted double-precision floating
16	point number. A double-precision floating point number.
17	op_Explicit
18	
19	[C#] public static explicit operator decimal(float value);
20	[C++] public: static Decimal op_Explicit(float value);
21	[VB] returnValue = Decimal.op_Explicit(value)
22	[JScript] returnValue = Decimal(value);
23	
24	Description
25	

1 Converts a single-precision floating point number to a **Decimal**. Return Value: A Decimal that represents the converted single-precision floating 2 point number. A single-precision floating point number. 3 op GreaterThan [C#] public static bool operator > (decimal d1, decimal d2); 6 [C++] public: static bool op GreaterThan(Decimal d1, Decimal d2); 7 [VB] returnValue = Decimal.op GreaterThan(d1, d2) [JScript] returnValue = d1 > d2; 10 Description 11 Returns a value indicating whether a specified **Decimal** is greater than 12 another specified Decimal. 13 Return Value: true if d1 is greater than d2; otherwise, false. A Decimal. A 14 Decimal. 15 op GreaterThanOrEqual 16 17 [C#] public static bool operator >=(decimal d1, decimal d2); 18 [C++] public: static bool op_GreaterThanOrEqual(Decimal d1, Decimal d2); 19 [VB] returnValue = Decimal.op GreaterThanOrEqual(d1, d2) 20 [JScript] returnValue = $d1 \ge d2$; 21 22 Description 23 Returns a value indicating whether a specified **Decimal** is greater than or 24 equal to another specified Decimal. 25

1	Return Value: true if $d1$ is greater than or equal to $d2$; otherwise, false. A
2	Decimal. A Decimal.
3	op_Implicit
4	
5	[C#] public static implicit operator decimal(byte value);
6	[C++] public: static Decimal op_Implicit(unsigned char value);
7	[VB] returnValue = Decimal.op_Implicit(value)
8	[JScript] returnValue = value;
9	
10	Description
11	Converts an 8-bit unsigned integer to a Decimal .
12	Return Value: A Decimal that represents the converted 8-bit unsigned integer. An
13	8-bit unsigned integer.
14	op_Implicit
15	
16	[C#] public static implicit operator decimal(char value);
17	[C++] public: static Decimal op_Implicit(wchar_t value);
18	[VB] returnValue = Decimal.op_Implicit(value)
19	[JScript] returnValue = value;
20	
21	Description
22	Converts a Unicode character to a Decimal .
23	Return Value: A Decimal that represents the converted Unicode character. A
24	Unicode character.
25	op_Implicit

```
[C#] public static implicit operator decimal(short value);
    [C++] public: static Decimal op Implicit(short value);
    [VB] returnValue = Decimal.op Implicit(value)
    [JScript] returnValue = value;
6
    Description
7
           Converts a 16-bit signed integer to a Decimal.
8
    Return Value: A Decimal that represents the converted 16-bit signed integer. A
9
    16-bit signed integer.
10
           op Implicit
11
12
    [C#] public static implicit operator decimal(int value);
13
    [C++] public: static Decimal op Implicit(int value);
14
    [VB] returnValue = Decimal.op Implicit(value)
15
    [JScript] returnValue = value;
16
17
    Description
18
           Converts a 32-bit signed integer to a Decimal.
19
    Return Value: A Decimal that represents the converted 32-bit signed integer. A
20
    32-bit signed integer.
21
           op Implicit
22
23
    [C#] public static implicit operator decimal(long value);
    [C++] public: static Decimal op_Implicit(__int64 value);
```

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```
[VB] returnValue = Decimal.op Implicit(value)
    [JScript] returnValue = value;
 3
    Description
           Converts a 64-bit signed integer to a Decimal.
    Return Value: A Decimal that represents the converted 64-bit signed integer. A
    64-bit signed integer.
           op Implicit
 8
 9
    [C#] public static implicit operator decimal(sbyte value);
10
    [C++] public: static Decimal op Implicit(char value);
11
    [VB] returnValue = Decimal.op Implicit(value)
12
    [JScript] returnValue = value;
13
14
    Description
15
           Converts an 8-bit signed integer to a Decimal.
16
    Return Value: A Decimal that represents the converted 8-bit signed integer. An 8-
17
    bit signed integer.
18
           op Implicit
19
20
    [C#] public static implicit operator decimal(ushort value);
21
    [C++] public: static Decimal op Implicit(unsigned short value);
22
    [VB] returnValue = Decimal.op Implicit(value)
23
    [JScript] returnValue = value;
24
25
```

1	
2	Description
3	Converts a 16-bit unsigned integer to a Decimal .
4	Return Value: A Decimal that represents the converted 16-bit unsigned integer. A
5	16-bit unsigned integer.
6	op_Implicit
7	
8	[C#] public static implicit operator decimal(uint value);
9	[C++] public: static Decimal op_Implicit(unsigned int value);
10	[VB] returnValue = Decimal.op_Implicit(value)
11	[JScript] returnValue = value;
12	
13	Description
14	Converts a 32-bit unsigned integer to a Decimal .
15	Return Value: A Decimal that represents the converted 32-bit unsigned integer. A
16	32-bit unsigned integer.
17	op_Implicit
18	
19	[C#] public static implicit operator decimal(ulong value);
20	[C++] public: static Decimal op_Implicit(unsignedint64 value);
21	[VB] returnValue = Decimal.op_Implicit(value)
22	[JScript] returnValue = value;
23	
24	Description
25	

```
Converts a 64-bit unsigned integer to a Decimal.
1
    Return Value: A Decimal that represents the converted 64-bit unsigned integer. A
2
    64-bit unsigned integer.
3
           op Increment
 5
    [C#] public static decimal operator ++(decimal d);
6
    [C++] public: static Decimal op Increment(Decimal d);
7
    [VB] returnValue = Decimal.op Increment(d)
8
    [JScript] returnValue = d++;
9
10
    Description
11
           Increments the Decimal operand by 1.
12
    Return Value: The value of d incremented by 1. The Decimal operand.
13
           op Inequality
14
15
    [C#] public static bool operator !=(decimal d1, decimal d2);
16
    [C++] public: static bool op Inequality(Decimal d1, Decimal d2);
17
    [VB] returnValue = Decimal.op Inequality(d1, d2)
18
    [JScript] returnValue = d1 != d2;
19
20
    Description
21
           Returns a value indicating whether two instances of Decimal are not equal.
22
    Return Value: true if d1 and d2 are not equal; otherwise, false. A Decimal. A
23
    Decimal.
24
           op LessThan
```

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1	
2	[C#] public static bool operator
3	[C++] public: static bool op_LessThan(Decimal d1, Decimal d2);
4	[VB] returnValue = Decimal.op_LessThan(d1, d2)
5	[JScript] returnValue = d1 < d2;
6	
7	Description
8	Returns a value indicating whether a specified Decimal is less than another
9	specified Decimal.
10	Return Value: true if $d1$ is less than $d2$; otherwise, false. A Decimal. A Decimal
11	op_LessThanOrEqual
12	
13	[C#] public static bool operator <=(decimal d1, decimal d2);
14	[C++] public: static bool op_LessThanOrEqual(Decimal d1, Decimal d2);
15	[VB] returnValue = Decimal.op_LessThanOrEqual(d1, d2)
16	[JScript] returnValue = d1 <= d2;
17	
18	Description
19	Returns a value indicating whether a specified Decimal is less than or equal
20	to another specified Decimal .
21	Return Value: true if $d1$ is less than or equal to $d2$; otherwise, false. A Decimal.
22	A Decimal.
23	op_Modulus
24	
25	[C#] public static decimal operator %(decimal d1, decimal d2);

	[C++] public: static Decimal op_Modulus(Decimal d1, Decimal d2);
i	
2	[VB] returnValue = Decimal.op_Modulus(d1, d2)
3	[JScript] returnValue = d1 % d2;
4	
5	Description
6	Returns the remainder resulting from dividing two specified Decimal
7	values.
8	Return Value: The Decimal remainder resulting from dividing $d1$ by $d2$. A
9	Decimal (the dividend). A Decimal (the divisor).
10	op_Multiply
11	
12	[C#] public static decimal operator *(decimal d1, decimal d2);
13	[C++] public: static Decimal op_Multiply(Decimal d1, Decimal d2);
14	[VB] returnValue = Decimal.op_Multiply(d1, d2)
15	[JScript] returnValue = d1 * d2;
16	
17	Description
18	Multiplies two specified Decimal values.
19	Return Value: The Decimal result of multiplying d1 by d2. A Decimal . A
20	Decimal.
21	op_Subtraction
22	
23	[C#] public static decimal operator -(decimal d1, decimal d2);
24	[C++] public: static Decimal op_Subtraction(Decimal d1, Decimal d2);
25	[VB] returnValue = Decimal.op_Subtraction(d1, d2)

1	[JScript] return Value = d1 - d2;
2	
3	Description
4	Subtracts two specified Decimal values.
5	Return Value: The Decimal result of subtracting d2 from d1. A Decimal. A
6	Decimal.
7	op_UnaryNegation
8	
9	[C#] public static decimal operator -(decimal d);
10	[C++] public: static Decimal op_UnaryNegation(Decimal d);
11	[VB] returnValue = Decimal.op_UnaryNegation(d)
12	[JScript] returnValue = -d;
13	
14	Description
15	Negates the value of the Decimal operand.
16	Return Value: The negated value of the operand, d . The Decimal operand.
17	op_UnaryPlus
18	
19	[C#] public static decimal operator +(decimal d);
20	[C++] public: static Decimal op_UnaryPlus(Decimal d);
21	[VB] returnValue = Decimal.op_UnaryPlus(d)
22	[JScript] returnValue = +d;
23	
24	Description
25	

The state of the s

1	Returns the value of the Decimal operand (the sign of the operand is
2	unchanged).
3	Return Value: The value of the operand, d . The Decimal operand.
4	Parse
5	
6	[C#] public static decimal Parse(string s);
7	[C++] public: static Decimal Parse(String* s);
8	[VB] Public Shared Function Parse(ByVal s As String) As Decimal
9	[JScript] public static function Parse(s : String) : Decimal; Converts the String
10	representation of a number to its Decimal equivalent.
11	·
12	Description
13	Converts the String representation of a number to its Decimal equivalent.
14	Return Value: The Decimal number equivalent to the number contained in s .
15	s contains a number of the form: [ws][sign]digits[.fractional-digits][ws]
16	Items in square brackets ('[' and ']') are optional, and other items are as follows. A
17	System.String containing a number to convert.
18	Parse
19	
20	[C#] public static decimal Parse(string s, IFormatProvider provider);
21	[C++] public: static Decimal Parse(String* s, IFormatProvider* provider);
22	[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As
23	IFormatProvider) As Decimal
24	[JScript] public static function Parse(s : String, provider : IFormatProvider) :
25	Decimal;

Description

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Converts the **String** representation of a number in a specified style to its **Decimal** equivalent.

Return Value: A **Decimal** with the value represented by s.

s contains a number of the form: [ws][sign]digits[.fractional-digits][ws]

Items in square brackets ('[' and ']') are optional, and other items are as follows. A

System.String containing a number to convert. An System.IFormatProvider

interface implementation which supplies culture-specific formatting information about s.

Parse

[C#] public static decimal Parse(string s, NumberStyles style);

[C++] public: static Decimal Parse(String* s, NumberStyles style);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles) As Decimal

[JScript] public static function Parse(s : String, style : NumberStyles) : Decimal;

Description

Converts the **String** representation of a number in a specified style to its **Decimal** equivalent.

Return Value: A $\mathbf{Decimal}$ with the value represented by s.

s contains a number of the form: [ws][sign]digits[.fractional-digits][ws]

Items in square brackets ('[' and ']') are optional, and other items are as follows. A

System.String containing a number to convert. The combination of one or more

1	System. Globalization. Number Styles constants that indicate the permitted formation in the permitted
2	of s.
3	Parse
4	
5	[C#] public static decimal Parse(string s, NumberStyles style, IFormatProvider
6	provider);
7	[C++] public: static Decimal Parse(String* s, NumberStyles style,
8	IFormatProvider* provider);
9	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
10	NumberStyles, ByVal provider As IFormatProvider) As Decimal
11	[JScript] public static function Parse(s : String, style : NumberStyles, provider :
12	IFormatProvider): Decimal;
13	
14	Description
15	Converts the String representation of a number in a specified style and
16	culture-specific format to its Decimal equivalent.
17	Return Value: A Decimal with the value represented by s.
18	s contains a number of the form: [ws][sign]digits[.fractional-digits][ws]
19	Items in square brackets ('[' and ']') are optional, and other items are as follows. A
20	System.String containing a number to convert. The combination of one or more
21	System.Globalization.NumberStyles constants that indicate the permitted format
22	of s. An System.IFormatProvider interface implementation which supplies
23	culture-specific formatting information about s.
24	Remainder
25	

- 11	
1	
2	[C#] public static decimal Remainder(decimal d1, decimal d2);
3	[C++] public: static Decimal Remainder(Decimal d1, Decimal d2);
4	[VB] Public Shared Function Remainder(ByVal d1 As Decimal, ByVal d2 As
5	Decimal) As Decimal
6	[JScript] public static function Remainder(d1 : Decimal, d2 : Decimal) : Decimal;
7	
8	Description
9	
10	Round
11	
12	[C#] public static decimal Round(decimal d, int decimals);
13	[C++] public: static Decimal Round(Decimal d, int decimals);
14	[VB] Public Shared Function Round(ByVal d As Decimal, ByVal decimals As
15	Integer) As Decimal
16	[JScript] public static function Round(d: Decimal, decimals: int): Decimal;
17	
18	Description
19	Rounds a Decimal value to a specified number of decimal places.
20	Return Value: d rounded to decimals number of decimal places. A Decimal value
21	to round. A value from 0 to 28 that specifies the number of decimal places to
22	round to.
23	Subtract
24	
25	[C#] public static decimal Subtract(decimal d1, decimal d2);

[C++] public: static Decimal Subtract(Decimal d1, Decimal d2);
[VB] Public Shared Function Subtract(ByVal d1 As Decimal, ByVal d2 As
Decimal) As Decimal
[JScript] public static function Subtract(d1 : Decimal, d2 : Decimal) : Decimal;
Description
Subtracts two specified Decimal values.
Return Value: The Decimal result of subtracting $d2$ from $d1$. A Decimal (the
minuend). A Decimal (the subtrahend).
IConvertible.ToBoolean
[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
Implements IConvertible.ToBoolean
[JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean;
IConvertible.ToByte
[C#] byte IConvertible.ToByte(IFormatProvider provider);
[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
IConvertible.ToByte
[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
IConvertible.ToChar

1	
2	[C#] char IConvertible.ToChar(IFormatProvider provider);
3	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
4	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
5	IConvertible. To Char
6	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
7	IConvertible.ToDateTime
8	
9	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
10	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
11	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
12	Implements IConvertible.ToDateTime
13	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
	DateTime;
14	IConvertible.ToDecimal
15	Teonvertiole. To Decimal
16	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
17	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
18	
19	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
20	Implements IConvertible.ToDecimal
21	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
22	IConvertible.ToDouble
23	[C#] double IC and the Top and to (IF and the control of the contr
24	[C#] double IConvertible.ToDouble(IFormatProvider provider);
25	[C++] double IConvertible::ToDouble(IFormatProvider* provider);

1	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
2	Implements IConvertible.ToDouble
3	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
4	IConvertible.ToInt16
5	
6	[C#] short IConvertible.ToInt16(IFormatProvider provider);
7	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
8	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
9	Implements IConvertible.ToInt16
10	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
11	IConvertible.ToInt32
12	
13	[C#] int IConvertible.ToInt32(IFormatProvider provider);
14	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
15	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
16	Implements IConvertible.ToInt32
17	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
18	IConvertible.ToInt64
19	
20	[C#] long IConvertible.ToInt64(IFormatProvider provider);
21	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
22	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
23	IConvertible.ToInt64
24	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
25	IConvertible.ToSByte

11	
1	
2	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
3	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
4	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
5	Implements IConvertible.ToSByte
6	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
7	IConvertible.ToSingle
8	
9	[C#] float IConvertible.ToSingle(IFormatProvider provider);
10	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
11	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
12	Implements IConvertible.ToSingle
13	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
14	IConvertible.ToType
15	
16	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
17	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
18	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
19	As Object Implements IConvertible.ToType
20	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
21	Object;
22	IConvertible.ToUInt16
23	
24	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
25	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);

11	
1	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
2	Implements IConvertible.ToUInt16
3	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
4	IConvertible.ToUInt32
5	
6	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
7	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
8	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
9	Implements IConvertible.ToUInt32
10	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
11	IConvertible.ToUInt64
12	
13	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
14	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
15	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
16	Implements IConvertible.ToUInt64
17	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
18	ToByte
19	
20	[C#] public static byte ToByte(decimal value);
21	[C++] public: static unsigned char ToByte(Decimal value);
22	[VB] Public Shared Function ToByte(ByVal value As Decimal) As Byte
23	[JScript] public static function ToByte(value : Decimal) : Byte;
24	
25	Description

1	Converts the value of the specified Decimal to the equivalent 8-bit
2	unsigned integer.
3	Return Value: An 8-bit unsigned integer equivalent to value.
4	value is rounded to the nearest integer value towards zero, and that result is
5	returned. The Decimal value.
6	ToDouble
7	
8	[C#] public static double ToDouble(decimal d);
9	[C++] public: static double ToDouble(Decimal d);
10	[VB] Public Shared Function ToDouble(ByVal d As Decimal) As Double
11	[JScript] public static function ToDouble(d : Decimal) : double;
12	
13	Description
14	Converts the value of the specified Decimal to the equivalent double-
15	precision floating point number.
16	Return Value: A double-precision floating point number equivalent to d .
17	Since a Double has fewer significant digits than a Decimal , this operation
18	can produce round-off errors. The Decimal value to convert.
19	ToInt16
20	
21	[C#] public static short ToInt16(decimal value);
22	[C++] public: static short ToInt16(Decimal value);
23	[VB] Public Shared Function ToInt16(ByVal value As Decimal) As Short
24	[JScript] public static function ToInt16(value : Decimal) : Int16;
25	

11	
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2	Description
3	Converts the value of the specified Decimal to the equivalent 16-bit signed
4	integer.
5	Return Value: An 16-bit signed integer equivalent to value. A Decimal value.
6	ToInt32
7	
8	[C#] public static int ToInt32(decimal d);
9	[C++] public: static int ToInt32(Decimal d);
10	[VB] Public Shared Function ToInt32(ByVal d As Decimal) As Integer
11	[JScript] public static function ToInt32(d: Decimal): int;
12	
13	Description
14	Converts the value of the specified Decimal to the equivalent 32-bit signed
15	integer.
16	Return Value: A 32-bit signed integer equivalent to the value of d .
17	The return value is the integral part of the decimal value; fractional digits
18	are truncated. The Decimal value to convert.
19	ToInt64
20	
21	[C#] public static long ToInt64(decimal d);
22	[C++] public: staticint64 ToInt64(Decimal d);
23	[VB] Public Shared Function ToInt64(ByVal d As Decimal) As Long
24	[JScript] public static function ToInt64(d: Decimal): long;
25	

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Converts the value of the specified **Decimal** to the equivalent 64-bit signed integer.

Return Value: A 64-bit signed integer equivalent to the value of d.

The return value is the integral part of the decimal value; fractional digits are truncated. The **Decimal** value to convert.

ToOACurrency

[C#] public static long ToOACurrency(decimal value);

[C++] public: static int64 ToOACurrency(Decimal value);

[VB] Public Shared Function ToOACurrency(ByVal value As Decimal) As Long [JScript] public static function ToOACurrency(value : Decimal) : long;

Description

Converts the specified **Decimal** value to the equivalent OLE Automation Currency value, which is contained in a 64-bit signed integer.

Return Value: A 64-bit signed integer that contains the OLE Automation equivalent of value. A **Decimal** value.

ToSByte

[C#] public static sbyte ToSByte(decimal value);

[C++] public: static char ToSByte(Decimal value);

[VB] Public Shared Function ToSByte(ByVal value As Decimal) As SByte

[JScript] public static function ToSByte(value : Decimal) : SByte;

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Converts the value of the specified **Decimal** to the equivalent 8-bit signed integer.

Return Value: An 8-bit signed integer equivalent to value. A Decimal value.

ToSingle

[C#] public static float ToSingle(decimal d);

[C++] public: static float ToSingle(Decimal d);

[VB] Public Shared Function ToSingle(ByVal d As Decimal) As Single

[JScript] public static function ToSingle(d : Decimal) : float;

Description

Converts the value of the specified **Decimal** to the equivalent single-precision floating point number.

Return Value: A single-precision floating point number equivalent to the value of d.

This operation can produce round-off errors because a single-precision floating point number has fewer significant digits than a **Decimal**. A **Decimal** value to convert.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the numeric value of this instance to its equivalent String representation. Description Converts the numeric value of this instance to its equivalent String representation. Return Value: A String representing the value of this instance. The return value is formatted with the general format specifier ("G"). That is, an optional minus sign symbol followed by a sequence of integral digits ("0" through "9"), optionally followed by a decimal point symbol and a sequence of fractional digits. No leading zeroes are prefixed to the returned value. **ToString** [C#] public string ToString(IFormatProvider provider);

[C#] public string ToString(IFormatProvider provider);
[C++] public: __sealed String* ToString(IFormatProvider* provider);
[VB] NotOverridable Public Function ToString(ByVal provider As
IFormatProvider) As String
[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **String** representation of the value of this instance as specified by provider.

1	provider is an IFormatProvider instance that obtains a
2	System.Globalization.NumberFormatInfo object. The NumberFormatInfo
3	object provides culture-specific format information about this instance. If <i>provide</i>
4	is null , the return value for this instance is formatted with the
5	NumberFormatInfo for the current culture. An System.IFormatProvider
6	interface implementation which supplies culture-specific formatting information.
7	ToString
8	
9	[C#] public string ToString(string format);
10	[C++] public: String* ToString(String* format);
11	[VB] Public Function ToString(ByVal format As String) As String
12	[JScript] public function ToString(format : String) : String;
13	
14	Description
15	Converts the numeric value of this instance to its equivalent String
16	representation, using the specified format specification.
17	Return Value: A String representation of the value of this instance as specified by
18	format.
19	If format is null or an empty string, the return value of this instance is
20	formatted with the general format specifier ("G"). A String containing a format
21	specification.
22	ToString
23	
24	[C#] public string ToString(string format, IFormatProvider provider);
25	[C++] public:sealed String* ToString(String* format, IFormatProvider*

1	provider);
2	[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal
3	provider As IFormatProvider) As String
4	[JScript] public function ToString(format : String, provider : IFormatProvider) :
5	String;
6	
7	Description
8	Converts the numeric value of this instance to its equivalent String
9	representation using the specified format and culture-specific format information.
10	Return Value: The String representation of the value of this instance as specified
11	by format and provider.
12	If format is null or an empty string, the return value for this instance is
13	formatted with the general format specifier ("G"). A format specification. An
14	System.IFormatProvider interface implementation which supplies culture-
15	specific formatting information.
16	ToUInt16
17	
18	[C#] public static ushort ToUInt16(decimal value);
19	[C++] public: static unsigned short ToUInt16(Decimal value);
20	[VB] Public Shared Function ToUInt16(ByVal value As Decimal) As UInt16
21	[JScript] public static function ToUInt16(value : Decimal) : UInt16;
22	
23	Description
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1	Converts the value of the specified Decimal to the equivalent 16-bit
2	unsigned integer.
3	Return Value: A 16-bit unsigned integer equivalent to the value of value.
4	The return value is the integral part of the decimal value; fractional digits
5	are truncated. A Decimal value to convert.
6	ToUInt32
7	
8	[C#] public static uint ToUInt32(decimal d);
9	[C++] public: static unsigned int ToUInt32(Decimal d);
10	[VB] Public Shared Function ToUInt32(ByVal d As Decimal) As UInt32
11	[JScript] public static function ToUInt32(d: Decimal): UInt32;
12	
13	Description
14	Converts the value of the specified Decimal to the equivalent 32-bit
15	unsigned integer.
16	Return Value: A 32-bit unsigned integer equivalent to the value of d .
17	The return value is the integral part of the decimal value; fractional digits
18	are truncated. A Decimal value to convert.
19	ToUInt64
20	
21	[C#] public static ulong ToUInt64(decimal d);
22	[C++] public: static unsignedint64 ToUInt64(Decimal d);
23	[VB] Public Shared Function ToUInt64(ByVal d As Decimal) As UInt64
24	[JScript] public static function ToUInt64(d: Decimal): UInt64;
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Converts the value of the specified **Decimal** to the equivalent 64-bit unsigned integer.

Return Value: A 64-bit unsigned integer equivalent to the value of d.

The return value is the integral part of the decimal value; fractional digits are truncated. A **Decimal** value to convert.

Truncate

[C#] public static decimal Truncate(decimal d);

[C++] public: static Decimal Truncate(Decimal d);

[VB] Public Shared Function Truncate(ByVal d As Decimal) As Decimal

[JScript] public static function Truncate(d: Decimal): Decimal;

Description

Returns the integral digits of the specified **Decimal**; any fractional digits are discarded.

Return Value: d rounded toward zero, to the nearest whole number.

This method rounds parameter d towards zero to the nearest whole number, which corresponds to discarding any digits after the decimal point. A **Decimal** to truncate.

Delegate class (System)

Truncate

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3	Description
4	Represents a delegate, which is a data structure that refers to a static
5	method or to an object instance and an instance method of that object.
6	The System.Delegate class is the base class for delegates.
7	Delegate
8	Example Syntax:
9	Truncate
10	
11	[C#] protected Delegate(object target, string method);
12	[C++] protected: Delegate(Object* target, String* method);
13	[VB] Protected Sub New(ByVal target As Object, ByVal method As String)
14	[JScript] protected function Delegate(target : Object, method : String); Initializes a
15	new instance of the System.Delegate class.
16	
17	Description
18	Creates a System. Delegate to represent the specified target System. Object
19	and the specified method.
20	This protected constructor is accessible only through this class or a derived
21	class. The System.Object to be represented by the System.Delegate . The
22	System.String containing the name of the method to be represented by the
23	System.Delegate.
24	Delegate

Example Syntax:

1	Truncate
2	
3	[C#] protected Delegate(Type target, string method);
4	[C++] protected: Delegate(Type* target, String* method);
5	[VB] Protected Sub New(ByVal target As Type, ByVal method As String)
6	[JScript] protected function Delegate(target : Type, method : String);
7	
8	Description
9	Creates a System.Delegate to represent the specified target System.Type
10	and the specified method.
11	This protected constructor is accessible only through this class or a derived
12	class. The System.Type to be represented by the System.Delegate. The
13	System.String containing the name of the method to be represented by the
14	System.Delegate.
15	Method
16	Truncate
17	
18	[C#] public MethodInfo Method {get;}
19	[C++] public:property MethodInfo* get_Method();
20	[VB] Public ReadOnly Property Method As MethodInfo
21	[JScript] public function get Method(): MethodInfo;
22	
23	Description
24	Gets the static method of the class represented by the System.Delegate .
25	Target

1	Truncate
2	
3	[C#] public object Target {get;}
4	[C++] public:property Object* get_Target();
5	[VB] Public ReadOnly Property Target As Object
6	[JScript] public function get Target() : Object;
7	
8	Description
9	Gets the class instance from which the System.Delegate was created.
10	An instance method is a method that is associated with an instance of a
11	class; whereas, a static method is a method that is associated with the class itself.
12	Clone
13	
14	[C#] public virtual object Clone();
15	[C++] public: virtual Object* Clone();
16	[VB] Overridable Public Function Clone() As Object
17	[JScript] public function Clone() : Object;
18	
19	Description
20	Creates a shallow copy of the System.Delegate.
21	Return Value: A shallow copy of the System.Delegate.
22	This method can be overridden by a derived class.
23	Combine
24	
25	[C#] public static Delegate Combine(Delegate[] delegates);

1	[C++] public: static Delegate* Combine(Delegate* delegates[]);
2	[VB] Public Shared Function Combine(ByVal delegates() As Delegate) As
3	Delegate
4	[JScript] public static function Combine(delegates : Delegate[]) : Delegate;
5	
6	Description
7	Combines the invocation lists of an array of multicast System.Delegate
8	instances.
9	Return Value: A new multicast System.Delegate with an invocation list that
10	concatenates the invocation lists of the delegates in the <i>delegates</i> array.
11	If the delegates array contains entries that are null , those entries are
12	ignored. The array of multicast System.Delegate instances to combine.
13	Combine
14	
15	[C#] public static Delegate Combine(Delegate a, Delegate b);
16	[C++] public: static Delegate* Combine(Delegate* a, Delegate* b);
17	[VB] Public Shared Function Combine(ByVal a As Delegate, ByVal b As
18	Delegate) As Delegate
19	[JScript] public static function Combine(a : Delegate, b : Delegate) : Delegate
20	Combines the invocation lists of the specified multicast System.Delegate
21	instances.
22	
23	Description
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Combines the invocation lists of two multicast **System.Delegate** instances.

Return Value: A new multicast **System.Delegate** with an invocation list that concatenates the invocation lists of a and b in that order.

The invocation list can contain duplicate entries; that is, entries that refer to the same method on the same object. The multicast **System.Delegate** whose invocation list comes first. The multicast **System.Delegate** whose invocation list comes last.

CombineImpl

[C#] protected virtual Delegate CombineImpl(Delegate d);

[C++] protected: virtual Delegate* CombineImpl(Delegate* d);

[VB] Overridable Protected Function CombineImpl(ByVal d As Delegate) As

Delegate

[JScript] protected function CombineImpl(d: Delegate): Delegate;

Description

When overridden in a derived class, combines the invocation lists of the specified multicast System.Delegate with the current multicast System.Delegate. Return Value: When overridden in a derived class, a new System.Delegate with an invocation list that concatenates the invocation list of the current System.Delegate and the invocation list of d.

This method must be overridden by a derived class. The current implementation simply throws a **System.MulticastNotSupportedException**. This protected method is accessible only through this class or a derived class. The

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multicast System. Delegate whose invocation list to append to the end of the invocation list of the current multicast System.Delegate.

CreateDelegate

[C#] public static Delegate CreateDelegate(Type type, MethodInfo method);

[C++] public: static Delegate* CreateDelegate(Type* type, MethodInfo* method);

[VB] Public Shared Function CreateDelegate(ByVal type As Type, ByVal method

As MethodInfo) As Delegate

[JScript] public static function CreateDelegate(type: Type, method: MethodInfo)

: Delegate;

Description

Creates a System. Delegate of the specified type to represent the specified static method.

Return Value: A System. Delegate of the specified type to represent the specified static method.

This method creates delegates for static methods only. A static method is a method that is associated with the class itself. The **System.Type** of

System.Delegate to create. The System.Reflection.MethodInfo describing the static method for which the **System.Delegate** is to be created.

CreateDelegate

[C#] public static Delegate CreateDelegate(Type type, object target, string method);

[C++] public: static Delegate* CreateDelegate(Type* type, Object* target, String*

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method);
[VB] Public Shared Function CreateDelegate(ByVal type As Type, ByVal target
As Object, ByVal method As String) As Delegate
[JScript] public static function CreateDelegate(type : Type, target : Object, method
: String) : Delegate; Creates a System.Delegate of the specified System.Type .

Description

Creates a **System.Delegate** of the specified type to represent the specified instance method of the specified **System.Object** instance.

Return Value: A System.Delegate of the specified type to represent the specified instance method of the specified System.Object instance type is null.

This method creates delegates for instance methods only. An instance method is a method that is associated with an instance of a class. The **System.Type** of **System.Delegate** to create. The target **System.Object** instance that implements *method*. The name of the instance method for which the **System.Delegate** is to be created.

CreateDelegate

[C#] public static Delegate CreateDelegate(Type type, Type target, string
method);
[C++] public: static Delegate* CreateDelegate(Type* type, Type* target, String*
method);
[VB] Public Shared Function CreateDelegate(ByVal type As Type, ByVal target
As Type, ByVal method As String) As Delegate
[JScript] public static function CreateDelegate(type : Type, target : Type, method :

String): Delegate;

Description

Creates a **System.Delegate** of the specified type to represent the specified static method of the specified **System.Type**.

Return Value: A System.Delegate of the specified type to represent the specified static method of the specified System.Type.

This method creates delegates for static methods only. A static method is a method that is associated with the class itself, not with any particular instance of the class. The **System.Type** of **System.Delegate** to create. The target **System.Type** that implements *method*. The name of the static method for which the delegate is to be created.

DynamicInvoke

[C#] public object DynamicInvoke(object[] args);

[C++] public: Object* DynamicInvoke(Object* args __gc[]);

[VB] Public Function DynamicInvoke(ByVal args() As Object) As Object

[JScript] public function DynamicInvoke(args : Object[]) : Object;

Description

Invokes the method, represented by the **System.Delegate**, dynamically (late-bound).

Return Value: The **System.Object** returned by the method represented by the **System.Delegate**.

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System.Delegate.DynamicInvokeImpl(System.Object[]) method. An array of System.Object instances that are the arguments to pass to the method represented by the System.Delegate.

DynamicInvokeImpl

This method calls the

[C#] protected virtual object DynamicInvokeImpl(object[] args);

[C++] protected: virtual Object* DynamicInvokeImpl(Object* args __gc[]);

[VB] Overridable Protected Function DynamicInvokeImpl(ByVal args() As Object) As Object

[JScript] protected function DynamicInvokeImpl(args : Object[]) : Object;

Description

Invokes the method, represented by the **System.Delegate**, dynamically (late-bound).

Return Value: The System.Object returned by the method represented by the System.Delegate.

This method can be overridden by a derived class. This protected method is accessible only through this class or a derived class. An array of **System.Object** instances that are the arguments to pass to the method represented by the **System.Delegate**.

Equals

[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

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[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean [JScript] public override function Equals(obj : Object) : Boolean; Description Determines whether the specified object and the singlecast System. Delegate share the same target, method and invocation list. Return Value: true if obj and the current System. Delegate have the same target, method and invocation list; otherwise, false. Two delegates with the same methods, the same targets and the same invocation lists are considered equal, even if they are not both singlecast or both multicast. The System.Object to compare with the singlecast System.Delegate. GetHashCode [C#] public override int GetHashCode(); [C++] public: int GetHashCode(); [VB] Overrides Public Function GetHashCode() As Integer [JScript] public override function GetHashCode(): int; Description Returns a hash code for the delegate instance. Return Value: A hash code for the delegate instance. The return value from this method must not be persisted for two reasons. First, the hash function of a class might be altered to generate a better distribution,

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rendering any values from the old hash function useless. Second, the default

implementation of this class does not guarantee that the same value will be 1 returned by different instances. 2 GetInvocationList 3 [C#] public virtual Delegate[] GetInvocationList(); 5 [C++] public: virtual Delegate* GetInvocationList() []; 6 [VB] Overridable Public Function GetInvocationList() As Delegate() 7 [JScript] public function GetInvocationList() : Delegate[]; 8 9 Description 10 Returns the invocation list of the System. Delegate. 11 Return Value: An array of singlecast System. Delegate objects representing the 12 invocation list of the current System. Delegate . If the current System. Delegate is 13 singlecast, the array contains only one element. If the current System.Delegate is 14 multicast, the array may contain more than one element. 15 This method can be overridden by a derived class. 16 GetMethodImpl 17 18 [C#] protected virtual MethodInfo GetMethodImpl(); 19 [C++] protected: virtual MethodInfo* GetMethodImpl(); 20 [VB] Overridable Protected Function GetMethodImpl() As MethodInfo 21 [JScript] protected function GetMethodImpl(): MethodInfo; 22 23 Description 24

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Gets the static method of the class represented by the **System.Delegate**.

Return Value: A **System.Reflection.MethodInfo** describing the static method represented by the **System.Delegate**.

This method can be overridden by a derived class. This protected method is accessible only through this class or a derived class.

GetObjectData

[C#] public virtual void GetObjectData(SerializationInfo info, StreamingContext context);

[C++] public: virtual void GetObjectData(SerializationInfo* info,

StreamingContext context);

[VB] Overridable Public Sub GetObjectData(ByVal info As SerializationInfo,

ByVal context As StreamingContext)

[JScript] public function GetObjectData(info : SerializationInfo, context :

StreamingContext);

Description

Implements the **System.Runtime.Serialization.ISerializable** interface and returns the data needed to serialize the **System.Delegate**.

This method can be overridden by a derived class. A

System.Runtime.Serialization.SerializationInfo object containing information required to serialize the System.Delegate. A

System.Runtime.Serialization.StreamingContext object containing the source and destination of the serialized stream associated with the System.Delegate.

op_Equality

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1
    [C#] public static bool operator ==(Delegate d1, Delegate d2);
    [C++] public: static bool op_Equality(Delegate* d1, Delegate* d2);
3
    [VB] returnValue = Delegate.op_Equality(d1, d2)
4
    [JScript] returnValue = d1 == d2;
5
6
    Description
7
           Determines whether the specified System.Delegate objects are equal.
8
    Return Value: true if d1 is equal to d2; otherwise, false.
           Two delegates with the same methods, the same targets and the same
10
    invocation lists are considered equal, even if they are not both singlecast or both
11
    multicast. The first System.Delegate to compare. The second System.Delegate to
12
    compare.
13
           op Inequality
14
15
    [C#] public static bool operator !=(Delegate d1, Delegate d2);
16
    [C++] public: static bool op_Inequality(Delegate* d1, Delegate* d2);
17
    [VB] returnValue = Delegate.op_Inequality(d1, d2)
18
    [JScript] returnValue = d1 != d2;
19
20
     Description
21
           Determines whether the specified System. Delegate objects are not equal.
22
     Return Value: true if d1 is not equal to d2; otherwise, false.
23
24
```

Two delegates are considered not equal if they have different methods or different targets or different invocation lists. The first **System.Delegate** to compare. The second **System.Delegate** to compare.

Remove

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[C#] public static Delegate Remove(Delegate source, Delegate value);

[C++] public: static Delegate* Remove(Delegate* source, Delegate* value);

[VB] Public Shared Function Remove(ByVal source As Delegate, ByVal value As

Delegate) As Delegate

[JScript] public static function Remove(source : Delegate, value : Delegate) :

Delegate;

Description

Removes a **System.Delegate** from the invocation list of another **System.Delegate**.

Return Value: A new System. Delegate with an invocation list formed by taking the invocation list of source and removing the last occurrence of value, if value is found in the invocation list of source.

The **System.Delegate** removed from the invocation list is the last delegate for which the following expression is true: *value*. The **System.Delegate** from which to remove *value*. The **System.Delegate** to remove from the invocation list of *source*.

RemoveImpl

[C#] protected virtual Delegate RemoveImpl(Delegate d);

25

[C++] protected: virtual Delegate* RemoveImpl(Delegate* d);

[VB] Overridable Protected Function RemoveImpl(ByVal d As Delegate) As

Delegate

[JScript] protected function RemoveImpl(d: Delegate): Delegate;

Description

Removes a **System.Delegate** from the invocation list of another **System.Delegate**.

Return Value: source, if d is not equal to source; otherwise, null.

This method can be overridden by a derived class. This protected method is accessible only through this class or a derived class. The **System.Delegate** to remove from the invocation list of the current **System.Delegate**.

DivideByZeroException class (System)

ToString

Description

The exception that is thrown when there is an attempt to divide an integral or decimal value by zero.

Dividing a floating-point value by zero will result in either positive infinity, negative infinity, or Not-a-Number (NaN) according to the rules of IEEE 754 arithmetic. Floating-point operations never throw an exception. For more information, see **System.Single** and **System.Double**.

DivideByZeroException

Example Syntax:

1	ToString
2	
3	[C#] public DivideByZeroException();
4	[C++] public: DivideByZeroException();
5	[VB] Public Sub New()
6	[JScript] public function DivideByZeroException(); Initializes a new instance of
7	the System.DivideByZeroException class.
8	
9	Description
10	Initializes a new instance of the System.DivideByZeroException class
11	with default properties.
12	The following table shows the initial property values for an instance of
13	System.DivideByZeroException .
14	DivideByZeroException
15	Example Syntax:
16	ToString
17	
18	[C#] public DivideByZeroException(string message);
19	[C++] public: DivideByZeroException(String* message);
20	[VB] Public Sub New(ByVal message As String)
21	[JScript] public function DivideByZeroException(message : String);
22	
23	Description
24	Initializes a new instance of the System.DivideByZeroException class
25	with a specified error message.

The following table shows the initial property values for an instance of **System.DivideByZeroException**. The error message that explains the reason for the exception.

Divide By Zero Exception

Example Syntax:

ToString

[C#] protected DivideByZeroException(SerializationInfo info, StreamingContext context);

[C++] protected: DivideByZeroException(SerializationInfo* info,

StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function DivideByZeroException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.DivideByZeroException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

DivideByZeroException

Example Syntax:

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[C#] public DivideByZeroException(string message, Exception innerException);

[C++] public: DivideByZeroException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function DivideByZeroException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.DivideByZeroException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception**X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

1	Message
2	Source
3	StackTrace
4	TargetSite
5	DllNotFoundException class (System)
6	ToString
7	
8	
9	Description
10	The exception that is thrown when a DLL specified in a DLL import cannot
11	be found.
12	System.DllNotFoundException uses the HRESULT
13	COR_E_DLLNOTFOUND, which has the value 0x80131524.
14	DllNotFoundException
15	Example Syntax:
16	ToString
17	
18	[C#] public DllNotFoundException();
19	[C++] public: DllNotFoundException();
20	[VB] Public Sub New()
21	[JScript] public function DllNotFoundException(); Initializes a new instance of
22	the System.DllNotFoundException class.
23	
24	Description
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Initializes a new instance of the **System.DllNotFoundException** class with default properties.

The following table shows the initial property values for an instance of **System.DllNotFoundException**.

DllNotFoundException

Example Syntax:

ToString

[C#] public DllNotFoundException(string message);

[C++] public: DllNotFoundException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function DllNotFoundException(message : String);

Description

Initializes a new instance of the **System.DllNotFoundException** class with a specified error message.

The following table shows the initial property values for an instance of **System.DllNotFoundException**. The error message that explains the reason for the exception.

DllNotFoundException

Example Syntax:

ToString

[C#] protected DllNotFoundException(SerializationInfo info, StreamingContext context);

1	[C++] protected: DllNotFoundException(SerializationInfo* info,
2	StreamingContext context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function DllNotFoundException(info: SerializationInfo,
6	context : StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.DllNotFoundException class with
10	serialized data. The System.Runtime.Serialization.SerializationInfo that holds
11	the serialized object data about the exception being thrown. The
12	System.Runtime.Serialization.StreamingContext that contains contextual
13	information about the source or destination.
14	DllNotFoundException
15	Example Syntax:
16	ToString
17	
18	[C#] public DllNotFoundException(string message, Exception inner);
19	[C++] public: DllNotFoundException(String* message, Exception* inner);
20	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
21	[JScript] public function DllNotFoundException(message : String, inner :
22	Exception);
23	
24	Description
25	

Initializes a new instance of the **System.DllNotFoundException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

TypeName

Double structure (System)

ToString

Description

Represents a double-precision floating point number.

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1	The Double value type represents a double-precision 64-bit number with
2	values ranging from negative 1.79769313486232e308 to positive
3	1.79769313486232e308, as well as positive or negative zero,
4	${\bf System. Double. Positive Infinity}\ ,\ {\bf System. Double. Negative Infinity}\ ,\ {\bf and}\ Not-a-constraints$
5	Number (System.Double.NaN).
6	ToString
7	
8	[C#] public const double Epsilon;
9	[C++] public: const double Epsilon;
10	[VB] Public Const Epsilon As Double
11	[JScript] public var Epsilon : double;
12	
13	Description
14	A constant representing the smallest positive Double greater than zero.
15	The value of this constant is 4.94065645841247e-324.
16	ToString
17	
18	[C#] public const double MaxValue;
19	[C++] public: const double MaxValue;
20	[VB] Public Const MaxValue As Double
21	[JScript] public var MaxValue : double;
22	
23	Description
24	A constant representing the largest possible value of Double .
25	The value of this constant is positive 1.79769313486232e308.

1	ToString
2	
3	[C#] public const double MinValue;
4	[C++] public: const double MinValue;
5	[VB] Public Const MinValue As Double
6	[JScript] public var MinValue : double;
7	
8	Description
9	A constant representing the smallest possible value of Double
10	The value of this constant is negative 1.79769313486232e308.
11	ToString
12	
13	[C#] public const double NaN;
14	[C++] public: const double NaN;
15	[VB] Public Const NaN As Double
16	[JScript] public var NaN : double;
17	
18	Description
19	A constant representing Not-a-Number (NaN).
20	The value of this constant is the result of dividing zero by zero
21	ToString
22	
23	[C#] public const double NegativeInfinity;
24	[C++] public: const double NegativeInfinity;
25	[VB] Public Const NegativeInfinity As Double

1	[JScript] public var Negativeininity: double,
2	
3	Description
4	A constant representing negative infinity.
5	The value of this constant is the result of dividing a negative number by
6	zero.
7	ToString
8	
9	[C#] public const double PositiveInfinity;
10	[C++] public: const double PositiveInfinity;
11	[VB] Public Const PositiveInfinity As Double
12	[JScript] public var PositiveInfinity : double;
13	
14	Description
15	A constant representing positive infinity.
16	The value of this constant is the result of dividing a positive number by
17	zero.
18	CompareTo
19	
20	[C#] public int CompareTo(object value);
21	[C++] public:sealed int CompareTo(Object* value);
22	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
23	Integer
24	[JScript] public function CompareTo(value : Object) : int;
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Compares this instance to a specified object and returns an indication of their relative values.

Return Value: A signed number indicating the relative values of this instance and value.

Any instance of **Double**, regardless of its value, is considered greater than **null**. An object to compare, or **null**.

Equals

[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean [JScript] public override function Equals(obj : Object) : Boolean;

Description

Returns a value indicating whether this instance is equal to a specified object.

Return Value: true if obj is an instance of **Double** and equals the value of this instance; otherwise, false. An object to compare with this instance.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

1	[JScript] public override function GetHashCode(): int;
2	
3	Description
4	Returns the hash code for this instance.
5	Return Value: A 32-bit signed integer hash code.
6	GetTypeCode
7	
8	<pre>[C#] public TypeCode GetTypeCode();</pre>
9	[C++] public:sealed TypeCode GetTypeCode();
10	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
11	[JScript] public function GetTypeCode(): TypeCode;
12	
13	Description
14	Returns the TypeCode for value type Double.
15	Return Value: The enumerated constant, System.TypeCode.Double.
16	IsInfinity
17	
18	[C#] public static bool IsInfinity(double d);
19	[C++] public: static bool IsInfinity(double d);
20	[VB] Public Shared Function IsInfinity(ByVal d As Double) As Boolean
21	[JScript] public static function IsInfinity(d : double) : Boolean;
22	
23	Description
24	Returns a value indicating whether the specified number evaluates to either
25	negative or positive infinity.

1	Return Value: true if d evaluates to negative or positive infinity; otherwise, false.
2	A double-precision floating point number.
3	IsNaN
4	
5	[C#] public static bool IsNaN(double d);
6	[C++] public: static bool IsNaN(double d);
7	[VB] Public Shared Function IsNaN(ByVal d As Double) As Boolean
8	[JScript] public static function IsNaN(d: double): Boolean;
9	
10	Description
11	Returns a value indicating whether the specified number evaluates to Not-a
12	Number (NaN).
13	Return Value: true if d evaluates to NaN; otherwise, false. A double-precision
14	floating point number.
15	IsNegativeInfinity
16	
17	[C#] public static bool IsNegativeInfinity(double d);
18	[C++] public: static bool IsNegativeInfinity(double d);
19	[VB] Public Shared Function IsNegativeInfinity(ByVal d As Double) As Boolean
20	[JScript] public static function IsNegativeInfinity(d : double) : Boolean;
21	
22	Description
23	Returns a value indicating whether the specified number evaluates to
24	negative infinity.
25	

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Return Value: true if d evaluates to negative infinity; otherwise, false. A double-precision floating point number.

IsPositiveInfinity

[C#] public static bool IsPositiveInfinity(double d);

[C++] public: static bool IsPositiveInfinity(double d);

[VB] Public Shared Function IsPositiveInfinity(ByVal d As Double) As Boolean [JScript] public static function IsPositiveInfinity(d: double): Boolean;

Description

Returns a value indicating whether the specified number evaluates to positive infinity.

Return Value: true if d evaluates to positive infinity; otherwise, false. A double-precision floating point number.

Parse

[C#] public static double Parse(string s);

[C++] public: static double Parse(String* s);

[VB] Public Shared Function Parse(ByVal s As String) As Double

[JScript] public static function Parse(s : String) : double; Converts the **String** representation of a number to its double-precision floating point number

equivalent.

Description

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Converts the **String** representation of a number to its double-precision floating point number equivalent.

Return Value: A double-precision floating point number equivalent to the numeric value or symbol specified in s.

s can contain

 $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$

 $System. Globalization. Number Format Info. Negative Infinity Symbol\ ,$

 ${\bf System. Globalization. Number Format In fo. NaN Symbol\ ,\ or\ a\ string\ of\ the\ form:$

[ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws]

Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A

System.String containing a number to convert.

Parse

[C#] public static double Parse(string s, IFormatProvider provider);

[C++] public: static double Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As Double

 $[JScript]\ public\ static\ function\ Parse (s:String,\ provider:IFormatProvider):$

double;

Description

Converts the **String** representation of a number in a specified culturespecific format to its double-precision floating point number equivalent.

Return Value: A double-precision floating point number equivalent to the numeric 1 value or symbol specified in s. 2 s can contain 3 System.Globalization.NumberFormatInfo.PositiveInfinitySymbol, 4 System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, 5 System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: 6 [ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws] 7 Optional items are framed in square brackets ('[' and ']'). Items containing the term 8 "digits" consist of a series of numeric characters ranging from 0 to 9. A 9 System.String containing a number to convert. An System.IFormatProvider 10 interface implementation which supplies culture-specific formatting information 11 about s. 12 Parse 13 14 [C#] public static double Parse(string s, NumberStyles style); 15 [C++] public: static double Parse(String* s, NumberStyles style); 16 [VB] Public Shared Function Parse(ByVal s As String, ByVal style As 17 NumberStyles) As Double 18 [JScript] public static function Parse(s : String, style : NumberStyles) : double; 19 20 Description 21 Converts the String representation of a number in a specified style to its 22 double-precision floating point number equivalent. 23 Return Value: A double-precision floating point number equivalent to the numeric 24

value or symbol specified in s.

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System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,
System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,
System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form:
[ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws]
Optional items are framed in square brackets ('[' and ']'). Items containing the term
"digits" consist of a series of numeric characters ranging from 0 to 9. A
System.String containing a number to convert. The combination of one or more
System.Globalization.NumberStylesconstants that indicate the permitted format of s.

Parse

[C#] public static double Parse(string s, NumberStyles style, IFormatProvider provider);

[C++] public: static double Parse(String* s, NumberStyles style, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style AsNumberStyles, ByVal provider As IFormatProvider) As Double[JScript] public static function Parse(s : String, style : NumberStyles, provider :

IFormatProvider): double;

Description

Converts the **String** representation of a number in a specified style and culture-specific format to its double-precision floating point number equivalent.

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Return Value: A double-precision floating point number equivalent to the numeric value or symbol specified in s. s can contain $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$ System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A System.String containing a number to convert. The combination of one or more System. Globalization. Number Styles constants that indicate the permitted format of s. An System.IFormatProvider interface implementation which supplies culture-specific formatting information about s. IConvertible.ToBoolean [C#] bool IConvertible.ToBoolean(IFormatProvider provider); [C++] bool IConvertible::ToBoolean(IFormatProvider* provider); [VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean Implements IConvertible.ToBoolean [JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean; IConvertible.ToByte [C#] byte IConvertible.ToByte(IFormatProvider provider); [C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);

[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements

1	IConvertible.ToByte
2	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
3	IConvertible.ToChar
4	
5	[C#] char IConvertible.ToChar(IFormatProvider provider);
6	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
7	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
8	IConvertible.ToChar
9	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
10	IConvertible.ToDateTime
11	
12	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
13	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
14	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
15	Implements IConvertible.ToDateTime
16	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
17	DateTime;
18	IConvertible.ToDecimal
19	
20	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
21	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
22	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
23	Implements IConvertible.ToDecimal
24	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
25	IConvertible.ToDouble

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1	
2	[C#] double IConvertible.ToDouble(IFormatProvider provider);
3	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
4	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
5	Implements IConvertible.ToDouble
6	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
7	IConvertible.ToInt16
8	
9	[C#] short IConvertible.ToInt16(IFormatProvider provider);
10	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
11	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
12	Implements IConvertible.ToInt16
13	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
14	IConvertible.ToInt32
15	
16	[C#] int IConvertible.ToInt32(IFormatProvider provider);
17	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
18	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
19	Implements IConvertible.ToInt32
20	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
21	IConvertible.ToInt64
22	
23	[C#] long IConvertible.ToInt64(IFormatProvider provider);
24	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
25	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements

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1	IConvertible.ToInt64
2	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
3	IConvertible.ToSByte
4	
5	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
6	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
7	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
8	Implements IConvertible.ToSByte
9	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
10	IConvertible.ToSingle
11	
12	[C#] float IConvertible.ToSingle(IFormatProvider provider);
13	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
14	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
15	Implements IConvertible.ToSingle
16	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
17	IConvertible.ToType
18	
19	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
20	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
21	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
22	As Object Implements IConvertible.ToType
23	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
24	Object;
25	IConvertible.ToUInt16

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2	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
3	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
4	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
5	Implements IConvertible.ToUInt16
6	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
7	IConvertible.ToUInt32
8	
9	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
10	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
11	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
12	Implements IConvertible.ToUInt32
13	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
14	IConvertible.ToUInt64
15	
16	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
17	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
18	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
19	Implements IConvertible.ToUInt64
20	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
21	ToString
22	
23	[C#] public override string ToString();
24	[C++] public: String* ToString();
25	[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the numeric value
of this instance to its equivalent String representation.
Description

Converts the numeric value of this instance to its equivalent **String** representation.

Return Value: The System.String representation of the value of this instance.

The return value can be

System.Globalization.NumberFormatInfo.PositiveInfinitySymbol,

System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,

System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form:

[sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

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Return Value: The System.String representation of the value of this instance as specified by provider. The return value can be $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$ $System. Globalization. Number Format Info. Negative Infinity Symbol\ ,$ ${\bf System. Globalization. Number Format Info. NaN Symbol\ ,\ or\ a\ string\ of\ the\ form:}$ [sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. An System.IFormatProvider interface implementation which supplies culturespecific formatting information. **ToString** [C#] public string ToString(string format); [C++] public: String* ToString(String* format); [VB] Public Function ToString(ByVal format As String) As String [JScript] public function ToString(format : String) : String; Description Converts the numeric value of this instance to its equivalent String representation, using the specified format. Return Value: The System.String representation of the value of this instance as

The return value can be

specified by format.

 $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$

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 $System. Globalization. Number Format Info. Negative Infinity Symbol\ ,$ System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A format string. **ToString** [C#] public string ToString(string format, IFormatProvider provider); [C++] public: __sealed String* ToString(String* format, IFormatProvider* provider); [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal provider As IFormatProvider) As String [JScript] public function ToString(format : String, provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent String representation using the specified format and culture-specific format information. Return Value: The System.String representation of the value of this instance as specified by format and provider.

The return value can be

 $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$ $System. Globalization. Number Format Info. Negative Infinity Symbol\ ,$ System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items

are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A format specification. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information.

TryParse

[C#] public static bool TryParse(string s, NumberStyles style, IFormatProvider provider, out double result);

[C++] public: static bool TryParse(String* s, NumberStyles style,

IFormatProvider* provider, double* result);

[VB] Public Shared Function TryParse(ByVal s As String, ByVal style As NumberStyles, ByVal provider As IFormatProvider, ByRef result As Double) As Boolean

[JScript] public static function TryParse(s : String, style : NumberStyles, provider : IFormatProvider, result : double) : Boolean;

Description

Converts the **String** representation of a number in a specified style and culture-specific format to its double-precision floating point number equivalent. *Return Value:* **true** if s is converted successfully; otherwise, **false**.

The system.Double.TryParse method is like the system.Double.Parse method, except this method does not throw an exception if the conversion fails. If the conversion succeeds, the return value is true and the result parameter is set to the outcome of the conversion. If the conversion fails, the return value is false and the result parameter is set to zero. A System.String containing a number to

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convert. The combination of one or more

System.Globalization.NumberStylesconstants that indicate the permitted format of s. An System.IFormatProvider interface implementation which supplies culture-specific formatting information about s. A double-precision floating-point number equivalent to the numeric value or symbol specified in s. If the return value is false, result is set to zero.

DuplicateWaitObjectException class (System)
TryParse

Description

The exception that is thrown when an object appears more than once in an array of synchronization objects.

The common language runtime provides a thread synchronization mechanism based on synchronization objects waiting for execution in an array of System. Threading. Wait Handle objects. If the array of System. Threading. Wait Handle objects passed to

System.Threading.WaitHandle.WaitAll(System.Threading.WaitHandle[],System.Int32,System.Boolean) or

System.Threading.WaitHandle.WaitAny(System.Threading.WaitHandle[],System.Int32,System.Boolean) contains any duplicate operating system handles,

System.DuplicateWaitObjectException is thrown. For more information, see

System.Threading.WaitHandle.

DuplicateWaitObjectException

Example Syntax:

1	TryParse
2	
3	[C#] public DuplicateWaitObjectException();
4	[C++] public: DuplicateWaitObjectException();
5	[VB] Public Sub New()
6	[JScript] public function DuplicateWaitObjectException(); Initializes a new
7	instance of the System.DuplicateWaitObjectException class.
8	
9	Description
10	Initializes a new instance of the System.DuplicateWaitObjectException
11	class with default properties.
12	The following table shows the initial property values for an instance of
13	System.DuplicateWaitObjectException .
14	DuplicateWaitObjectException
15	Example Syntax:
16	TryParse
17	
18	[C#] public DuplicateWaitObjectException(string parameterName);
19	[C++] public: DuplicateWaitObjectException(String* parameterName);
20	[VB] Public Sub New(ByVal parameterName As String)
21	[JScript] public function DuplicateWaitObjectException(parameterName : String)
22	
23	Description
24	Initializes a new instance of the System.DuplicateWaitObjectException
25	class with the name of the parameter that causes this exception.

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The following table shows the initial property values for an instance of
System.DuplicateWaitObjectException . The name of the invalid parameter.
DuplicateWaitObjectException

Example Syntax:

TryParse

[C#] protected DuplicateWaitObjectException(SerializationInfo info, StreamingContext context);

[C++] protected: DuplicateWaitObjectException(SerializationInfo* info,

StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

 $[JScript]\ protected\ function\ Duplicate Wait Object Exception (in fo:$

SerializationInfo, context: StreamingContext);

Description

Initializes a new instance of the **System.DuplicateWaitObjectException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

DuplicateWaitObjectException

Example Syntax:

TryParse

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[C#] public DuplicateWaitObjectException(string parameterName, string
message);
[C++] public: DuplicateWaitObjectException(String* parameterName, String*

[VB] Public Sub New(ByVal parameterName As String, ByVal message As String)

[JScript] public function DuplicateWaitObjectException(parameterName : String, message : String);

Description

message);

Initializes a new instance of the **System.DuplicateWaitObjectException** class with a specified error message and the name of the parameter that causes this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The name of the invalid parameter. The error message that explains the reason for the exception.

HelpLink

HResult

InnerException

Message

ParamName

1	Source
2	StackTrace
3	TargetSite
4	EntryPointNotFoundException class (System)
5	ToString
6	
7	
8	Description
9	The exception that is thrown when an attempt to load a class fails due to the
10	absence of an entry method.
11	For a list of initial property values for an instance of
12	System.EntryPointNotFoundException, see the
13	System.EntryPointNotFoundException.#ctor constructors.
14	EntryPointNotFoundException
15	Example Syntax:
16	ToString
17	
18	[C#] public EntryPointNotFoundException();
19	[C++] public: EntryPointNotFoundException();
20	[VB] Public Sub New()
21	[JScript] public function EntryPointNotFoundException(); Initializes a new
22	instance of the System.EntryPointNotFoundException class.
23	
24	Description
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Initializes a new instance of the **System.EntryPointNotFoundException** class with default properties.

The following table shows the initial property values for an instance of System.EntryPointNotFoundException.

EntryPointNotFoundException

Example Syntax:

ToString

[C#] public EntryPointNotFoundException(string message);

[C++] public: EntryPointNotFoundException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function EntryPointNotFoundException(message : String);

Description

Initializes a new instance of the **System.EntryPointNotFoundException** class with a specified error message.

The following table shows the initial property values for an instance of **System.EntryPointNotFoundException**. The error message that explains the reason for the exception.

EntryPointNotFoundException

Example Syntax:

ToString

[C#] protected EntryPointNotFoundException(SerializationInfo info,

StreamingContext context);

1	[C++] protected: EntryPointNotFoundException(SerializationInfo* info,
2	StreamingContext context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function EntryPointNotFoundException(info:
6	SerializationInfo, context: StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.EntryPointNotFoundException
10	class with serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	EntryPointNotFoundException
16	Example Syntax:
17	ToString
18	
19	[C#] public EntryPointNotFoundException(string message, Exception inner);
20	[C++] public: EntryPointNotFoundException(String* message, Exception* inner)
21	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
22	[JScript] public function EntryPointNotFoundException(message : String, inner :
23	Exception);
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25	Description

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Initializes a new instance of the System. Entry Point Not Found Exception class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the System.Exception.InnerException property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

TypeName

Enum class (System)

ToString

Description

Provides the base class for enumerations.

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An enumeration type is a named constant whose underlying type is any integral type except System.Char . Programming languages typically provide syntax to declare an enumeration that consists of a set of named constants and their values. Enum Example Syntax: **ToString** [C#] protected Enum(); [C++] protected: Enum(); [VB] Protected Sub New() [JScript] protected function Enum(); CompareTo [C#] public int CompareTo(object target); [C++] public: __sealed int CompareTo(Object* target); [VB] NotOverridable Public Function CompareTo(ByVal target As Object) As Integer [JScript] public function CompareTo(target : Object) : int; Description Compares this instance to a specified object and returns an indication of their relative values. Return Value: A signed number indicating the relative values of this instance and

target. An object to compare, or null.

1	Equals
2	
3	[C#] public override bool Equals(object obj);
4	[C++] public: bool Equals(Object* obj);
5	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
6	[JScript] public override function Equals(obj : Object) : Boolean;
7	
8	Description
9	Returns a value indicating whether this instance is equal to a specified
10	object.
11	Return Value: true if obj is an Enum with the same underlying type and value as
12	this instance; otherwise, false. An object to compare with this instance.
13	Format
14	
15	[C#] public static string Format(Type enumType, object value, string format);
16	[C++] public: static String* Format(Type* enumType, Object* value, String*
17	format);
18	[VB] Public Shared Function Format(ByVal enumType As Type, ByVal value As
19	Object, ByVal format As String) As String
20	[JScript] public static function Format(enumType : Type, value : Object, format :
21	String): String;
22	
23	Description
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Converts the specified value of a specified enumerated type to its equivalent **String** representation according to the specified format.

Return Value: A string representation of value.

The valid format values are: Format Description "G" or "g" If value is equal to a named enumerated constant, the name of that constant is returned; otherwise, the decimal equivalent of value is returned. The enumeration type of the value to be converted. The value to be converted. The output format to use.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode(): int;

Description

Returns the hash code for this instance.

Return Value: A 32-bit signed integer hash code.

GetName

[C#] public static string GetName(Type enumType, object value);

[C++] public: static String* GetName(Type* enumType, Object* value);

[VB] Public Shared Function GetName(ByVal enumType As Type, ByVal value

As Object) As String

[JScript] public static function GetName(enumType : Type, value : Object) :

String;

Description

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Retrieves the name of the constant in the specified enumeration that has the specified value.

Return Value: A System.String containing the name of the enumerated constant in enumType whose value is value, or null if no such constant is found. An enumeration. The value of a particular enumerated constant in terms of its underlying type.

GetNames

[C#] public static string[] GetNames(Type enumType);

[C++] public: static String* GetNames(Type* enumType) __gc[];

[VB] Public Shared Function GetNames(ByVal enumType As Type) As String()

[JScript] public static function GetNames(enumType : Type) : String[];

Description

Retrieves an array of the names of the constants in a specified enumeration.

Return Value: A System.String array of the names of the constants in enumType.

The elements of the array are sorted by the values of the enumerated constants. An enumeration.

GetTypeCode

[C#] public TypeCode GetTypeCode();

[C++] public: __sealed TypeCode GetTypeCode();

[VB] NotOverridable Public Function GetTypeCode() As TypeCode

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1	[JScript] public function GetTypeCode(): TypeCode;
2	
3	Description
4	Returns the underlying TypeCode for this instance.
5	Return Value: The System.TypeCode for this instance.
6	GetUnderlyingType
7	
8	[C#] public static Type GetUnderlyingType(Type enumType);
9	[C++] public: static Type* GetUnderlyingType(Type* enumType);
10	[VB] Public Shared Function GetUnderlyingType(ByVal enumType As Type) As
11	Туре
12	[JScript] public static function GetUnderlyingType(enumType: Type): Type;
13	
14	Description
15	Returns the underlying type of the specified enumeration.
16	Return Value: The underlying System.Type of enumType. An enumerated type.
17	GetValues
18	
19	[C#] public static Array GetValues(Type enumType);
20	[C++] public: static Array* GetValues(Type* enumType);
21	[VB] Public Shared Function GetValues(ByVal enumType As Type) As Array
22	[JScript] public static function GetValues(enumType : Type) : Array;
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24	Description
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Retrieves an array of the values of the constants in a specified enumeration.

Return Value: An Array of the values of the constants in enumType. The elements of the array are sorted by the values of the enumeration constants. An enumeration.

IsDefined

[C#] public static bool IsDefined(Type enumType, object value);

[C++] public: static bool IsDefined(Type* enumType, Object* value);

[VB] Public Shared Function IsDefined(ByVal enumType As Type, ByVal value

As Object) As Boolean

[JScript] public static function IsDefined(enumType : Type, value : Object) :

Boolean;

Description

Returns an indication whether a constant with a specified value exists in a specified enumeration.

Return Value: true if a constant in enumType has a value equal to value;

otherwise, false. An enumeration. The value or name of a constant in enumType.

Parse

[C#] public static object Parse(Type enumType, string value);

[C++] public: static Object* Parse(Type* enumType, String* value);

[VB] Public Shared Function Parse(ByVal enumType As Type, ByVal value As

String) As Object

[JScript] public static function Parse(enumType : Type, value : String) : Object;

Converts the **String** representation of the name or numeric value of one or more enumerated constants to an equivalent enumerated object.

Description

Converts the **String** representation of the name or numeric value of one or more enumerated constants to an equivalent enumerated object.

Return Value: An object of type enumType whose value is represented by value.

value contains a value, a named constant, or a list of named constants delimited by commas (","). One or more blanks (" ") can precede or follow each value, name, or comma in value. If value is a list, the return value is the value of the specified names combined with a bitwise OR operation. The **System.Type**of the enumeration. A **System.String** containing the name or value to convert.

Parse

[C#] public static object Parse(Type enumType, string value, bool ignoreCase); [C++] public: static Object* Parse(Type* enumType, String* value, bool ignoreCase);

[VB] Public Shared Function Parse(ByVal enumType As Type, ByVal value As String, ByVal ignoreCase As Boolean) As Object

[JScript] public static function Parse(enumType : Type, value : String, ignoreCase : Boolean) : Object;

Description

Converts the **String** representation of the name or numeric value of one or more enumerated constants to an equivalent enumerated object. A parameter

specifies whether the operation is case-sensitive. Return Value: An object of type enumType whose value is represented by value. 2 value contains a value, a named constant, or a list of named constants 3 delimited by commas (","). One or more blanks (" ") can precede or follow each value, name, or comma in value. If value is a list, the return value is the value of 5 the specified names combined with a bitwise OR operation. The System.Typeof 6 the enumeration. A System.String containing the name or value to convert. If 7 true, ignore case; otherwise, regard case. 8 IConvertible.ToBoolean 9 10 [C#] bool IConvertible.ToBoolean(IFormatProvider provider); 11 12 13 Implements IConvertible.ToBoolean 14 15 IConvertible.ToByte 16 17 [C#] byte IConvertible.ToByte(IFormatProvider provider); 18 19 20 IConvertible.ToByte 21 22 IConvertible.ToChar 23 24

[C++] bool IConvertible::ToBoolean(IFormatProvider* provider); [VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean [JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean; [C++] unsigned char IConvertible::ToByte(IFormatProvider* provider); [VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements [JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte; [C#] char IConvertible.ToChar(IFormatProvider provider); 675

1	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
2	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
3	IConvertible.ToChar
4	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
5	IConvertible.ToDateTime
6	
7	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
8	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
9	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
10	Implements IConvertible.ToDateTime
11	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
12	DateTime;
13	IConvertible.ToDecimal
14	
15	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
16	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
17	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
18	Implements IConvertible.ToDecimal
19	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
20	IConvertible.ToDouble
21	
22	[C#] double IConvertible.ToDouble(IFormatProvider provider);
23	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
24	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
25	

1	Implements IConvertible.ToDouble
2	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
3	IConvertible.ToInt16
4	
5	[C#] short IConvertible.ToInt16(IFormatProvider provider);
6	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
7	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
8	Implements IConvertible.ToInt16
9	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
10	IConvertible.ToInt32
11	
12	[C#] int IConvertible.ToInt32(IFormatProvider provider);
13	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
14	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
15	Implements IConvertible.ToInt32
16	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
17	IConvertible.ToInt64
18	
19	[C#] long IConvertible.ToInt64(IFormatProvider provider);
20	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
21	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
22	IConvertible.ToInt64
23	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
24	IConvertible.ToSByte
25	

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2	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
3	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
4	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
5	Implements IConvertible.ToSByte
6	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
7	IConvertible.ToSingle
8	
9	[C#] float IConvertible.ToSingle(IFormatProvider provider);
10 ⁻	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
11	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
12	Implements IConvertible.ToSingle
13	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
14	IConvertible.ToType
15	
16	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
17	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
18	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider
19	As Object Implements IConvertible.ToType
20	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
21	Object;
22	IConvertible.ToUInt16
23	
24	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
25	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);

1	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
2	Implements IConvertible.ToUInt16
3	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
4	IConvertible.ToUInt32
5	
6	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
7	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
8	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
9	Implements IConvertible.ToUInt32
10	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
11	IConvertible.ToUInt64
12	
13	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
14	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
15	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
16	Implements IConvertible.ToUInt64
17	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
18	ToObject
19	
20	[C#] public static object ToObject(Type enumType, byte value);
21	[C++] public: static Object* ToObject(Type* enumType, unsigned char value);
22	[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value
23	As Byte) As Object
24	[JScript] public static function ToObject(enumType : Type, value : Byte) : Object;
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Description

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Returns an instance of the specified enumeration type set to the specified 8bit unsigned integer value.

Return Value: An instance of the enumeration set to value. The enumeration for which to create a value. The value to set.

ToObject

[C#] public static object ToObject(Type enumType, short value);

[C++] public: static Object* ToObject(Type* enumType, short value);

[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value

As Short) As Object

[JScript] public static function ToObject(enumType : Type, value : Int16) : Object;

Description

Returns an instance of the specified enumeration type set to the specified 16-bit signed integer value.

Return Value: An instance of the enumeration set to value. The enumeration for which to create a value. The value to set.

ToObject

[C#] public static object ToObject(Type enumType, int value);

[C++] public: static Object* ToObject(Type* enumType, int value);

[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value

As Integer) As Object

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[JScript] public static function ToObject(enumType : Type, value : int) : Object; 2 Description 3 Returns an instance of the specified enumeration type set to the specified 4 32-bit signed integer value. 5 Return Value: An instance of the enumeration set to value. The enumeration for 6 which to create a value. The value to set. 7 **ToObject** 8 9 [C#] public static object ToObject(Type enumType, long value); 10 [C++] public: static Object* ToObject(Type* enumType, __int64 value); 11 [VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value 12 As Long) As Object 13 [JScript] public static function ToObject(enumType : Type, value : long) : Object; 14 15 Description 16 Returns an instance of the specified enumeration type set to the specified 17 64-bit signed integer value. 18 Return Value: An instance of the enumeration set to value. The enumeration for 19 which to create a value. The value to set. 20 **ToObject** 21 22 [C#] public static object ToObject(Type enumType, object value); 23 [C++] public: static Object* ToObject(Type* enumType, Object* value); 24 [VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value 25

1	As Object) As Object
2	[JScript] public static function ToObject(enumType : Type, value : Object) :
3	Object; Returns an instance of the specified enumeration set to the specified value.
4	
5	Description
6	Returns an instance of the specified enumeration set to the specified value.
7	Return Value: An enumeration object whose value is value.
8	value is specified in terms of the underlying type of the enumeration. An
9	enumeration. The value.
10	ToObject
11	
12	[C#] public static object ToObject(Type enumType, sbyte value);
13	[C++] public: static Object* ToObject(Type* enumType, char value);
14	[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value
15	As SByte) As Object
16	[JScript] public static function ToObject(enumType : Type, value : SByte) :
17	Object; Returns an instance of the specified enumeration type set to the specified
18	value.
19	
20	Description
21	Returns an instance of the specified enumeration type set to the specified 8-
22	bit signed integer value.
23	Return Value: An instance of the enumeration set to value. The enumeration for
24	which to create a value. The value to set.
25	ToObject

[C#] public static object ToObject(Type enumType, ushort value);
[C++] public: static Object* ToObject(Type* enumType, unsigned short value);
[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value
As UInt16) As Object
[JScript] public static function ToObject(enumType: Type, value: UInt16):

Description

Object;

Returns an instance of the specified enumeration type set to the specified 16-bit unsigned integer value.

Return Value: An instance of the enumeration set to value. The enumeration for which to create a value. The value to set.

ToObject

[C#] public static object ToObject(Type enumType, uint value);

[C++] public: static Object* ToObject(Type* enumType, unsigned int value);

[VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value

As UInt32) As Object

[JScript] public static function ToObject(enumType: Type, value: UInt32):

Object;

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Description

Returns an instance of the specified enumeration type set to the specified 32-bit unsigned integer value.

Return Value: An instance of the enumeration set to value. The enumeration for which to create a value. The value to set. 2 **ToObject** 3 [C#] public static object ToObject(Type enumType, ulong value); 5 [C++] public: static Object* ToObject(Type* enumType, unsigned __int64 value); 6 [VB] Public Shared Function ToObject(ByVal enumType As Type, ByVal value 7 As UInt64) As Object 8 [JScript] public static function ToObject(enumType : Type, value : UInt64) : Object; 10 11 Description 12 Returns an instance of the specified enumeration type set to the specified 13 64-bit unsigned integer value. 14 Return Value: An instance of the enumeration set to value. The enumeration for 15 which to create a value. The value to set. 16 **ToString** 17 18 [C#] public override string ToString(); 19 [C++] public: String* ToString(); 20 [VB] Overrides Public Function ToString() As String 21 [JScript] public override function ToString(): String; 22 23 Description 24

Converts the value of this instance to its equivalent **String** representation.

Return Value: The **String** representation of the value of this instance.

This method behaves as if the general format character, "G", were specified. That is, if the **System.FlagsAttribute** is not applied to this enumerated type and there is a named constant equal to the value of this instance, then the return value is a string containing the name of the constant. If the **System.FlagsAttribute** is applied and there is a combination of one or more named constants equal to the value of this instance, then the return value is a string containing a delimiter-separated list of the names of the constants. Otherwise, the return value is the string representation of the numeric value of this instance.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the value of this instance to its equivalent **String** representation using the specified format information.

Return Value: The **String** representation of the name of the value of this instance as specified by *provider*.

provider is reserved; it does not participate in this operation and can be specified as null. Therefore, this method is equivalent to the

System.Enum.ToString(System.String) method that takes no parameters. (Reserved) An System.IFormatProvider object that supplies format information 2 about this instance. 3 **ToString** 4 5 [C#] public string ToString(string format); 6 [C++] public: String* ToString(String* format); 7 [VB] Public Function ToString(ByVal format As String) As String 8 [JScript] public function ToString(format : String) : String; Converts the value of 9 this instance to its equivalent String representation. 10 11 Description 12 Converts the value of this instance to its equivalent String representation 13 using the specified format. 14 Return Value: The String representation of the value of this instance as specified 15 by format. 16 format can contain format characters "G" or "g", "D" or "d", "X" or "x", 17 and "F" or "f". If format is null or an empty string, the general format specifier 18 ("G") is used. For more information about these format characters, see the 19 Remarks section of the 20 ${\bf System. Enum. Format (System. Type, System. Object, System. String)}\ method.$ 21 For more information about formatting in general, see . A format string. 22 **ToString** 23 24

[C#] public string ToString(string format, IFormatProvider provider);

[C++] public: __sealed String* ToString(String* format, IFormatProvider* provider); 2 [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal 3 provider As IFormatProvider) As String [JScript] public function ToString(format : String, provider : IFormatProvider) : 5 String; 6 7 Description 8 Converts the value of this instance to its equivalent String representation 9 using the specified format and format information. 10 Return Value: The String representation of the value of this instance as specified 11 by format and provider. 12 format can contain format characters "G" or "g", "D" or "d", "X" or "x", 13 and "F" or "f". If format is null or an empty string, the general format specifier 14 ("G") is used. For more information about these format characters, see the 15 Remarks section of the 16 ${\bf System. Enum. Format (System. Type, System. Object, System. String)}\ method.$ 17 For more information about formatting in general, see . A format specification. 18 (Reserved) An System.IFormatProvider object that supplies format information 19 about this instance. 20 Environment class (System) 21 **ToString** 22 23 24

Description

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Provides information about, and means to manipulate, the current environment and platform. CommandLine **ToString** [C#] public static string CommandLine {get;} [C++] public: property static String* get_CommandLine(); [VB] Public Shared ReadOnly Property CommandLine As String [JScript] public static function get CommandLine(): String; Description Gets the command line for this process. CurrentDirectory **ToString** [C#] public static string CurrentDirectory {get; set;} [C++] public: __property static String* get_CurrentDirectory();public: __property static void set CurrentDirectory(String*); [VB] Public Shared Property CurrentDirectory As String [JScript] public static function get CurrentDirectory(): String; public static function set CurrentDirectory(String); Description Gets and sets the fully qualified path of the current directory; that is, the

directory from which this process starts.

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By definition, if this process starts in the root directory of a local or network drive, the value of this property is the drive name followed by a trailing slash (for example, "C:\"). If this process starts in a subdirectory, the value of this property is the drive and subdirectory path, without a trailing slash (for example, "C:\mySubDirectory"). ExitCode **ToString** [C#] public static int ExitCode {get; set;} [C++] public: __property static int get_ExitCode();public: __property static void set ExitCode(int); [VB] Public Shared Property ExitCode As Integer [JScript] public static function get ExitCode(): int;public static function set ExitCode(int); Description Gets or sets the exit code of the process. This property can be used to return a success code from an application. For example, it can be used to control the execution of a set of applications invoked in a script. HasShutdownStarted **ToString**

[C#] public bool HasShutdownStarted {get;}

[C++] public: __property bool get_HasShutdownStarted();

1	[VB] Public ReadOnly Property HasShutdownStarted As Boolean
	[JScript] public function get HasShutdownStarted(): Boolean;
2	[Joenpe] public function get Hasonataownstated(). Boolean,
3	
4	Description
5	
6	MachineName
7	ToString
8	
9	[C#] public static string MachineName {get;}
10	[C++] public:property static String* get_MachineName();
11	[VB] Public Shared ReadOnly Property MachineName As String
12	[JScript] public static function get MachineName(): String;
13	
14	Description
15	Gets the NetBIOS name of this local computer.
16	The name of this computer is established at system startup when the name
17	is read from the registry. If this computer is a node in a cluster, the name of the
18	node is returned.
19	NewLine
20	ToString
21	
22	[C#] public static string NewLine {get;}
23	[C++] public:property static String* get_NewLine();
24	[VB] Public Shared ReadOnly Property NewLine As String
25	[JScript] public static function get NewLine(): String;

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2	Description
3	Gets the newline string defined for this environment.
4	The property value is a constant customized specifically for the current
5	platform.
6	OSVersion
7	ToString
8	
9	[C#] public static OperatingSystem OSVersion {get;}
10	[C++] public:property static OperatingSystem* get_OSVersion();
11	[VB] Public Shared ReadOnly Property OSVersion As OperatingSystem
12	[JScript] public static function get OSVersion(): OperatingSystem;
13	
14	Description
15	Gets an OperatingSystem object that contains the current platform
16	identifier and version number.
17	StackTrace
18	ToString
19	
20	[C#] public static string StackTrace {get;}
21	[C++] public:property static String* get_StackTrace();
22	[VB] Public Shared ReadOnly Property StackTrace As String
23	[JScript] public static function get StackTrace() : String;
24	
25	Description

Gets current stack trace information. SystemDirectory 2 **ToString** 3 [C#] public static string SystemDirectory {get;} 5 [C++] public: _ property static String* get_SystemDirectory(); 6 [VB] Public Shared ReadOnly Property SystemDirectory As String 7 [JScript] public static function get SystemDirectory(): String; 8 9 Description 10 Gets the fully qualified path of the system directory. 11 An example of the value returned is the string "C:\WinNT\System32". 12 **TickCount** 13 **ToString** 14 15 [C#] public static int TickCount {get;} 16 [C++] public: __property static int get_TickCount(); 17 [VB] Public Shared ReadOnly Property TickCount As Integer 18 [JScript] public static function get TickCount(): int; 19 20 Description 21 Gets the number of milliseconds elapsed since the system started. 22 The value of this property is derived from the system timer and is stored as 23 a 32-bit signed integer. Therefore, the elapsed time will wrap around to zero if the 24 system is run continuously for 49.7 days.

UserDomainName **ToString** 2 3 [C#] public static string UserDomainName {get;} [C++] public: __property static String* get_UserDomainName(); 5 [VB] Public Shared ReadOnly Property UserDomainName As String 6 [JScript] public static function get UserDomainName(): String; 7 8 Description 9 Gets the name of the application domain of the current user. 10 The value of this property is typically the host machine name, but can 11 depend upon the application solution being deployed. 12 UserInteractive 13 **ToString** 14 15 [C#] public static bool UserInteractive {get;} 16 [C++] public: property static bool get_UserInteractive(); 17 [VB] Public Shared ReadOnly Property UserInteractive As Boolean 18 [JScript] public static function get UserInteractive(): Boolean; 19 20 Description 21 Gets a value indicating whether the current process is running in user 22 interactive mode. 23 This will be false only when running as a Service Process or from inside a 24 Web application. When this property is false, you should not display any modal

1	dialogs or message boxes, because there is no graphical user interface for the user
2	to interact with.
3	UserName
4	ToString
5	
6	[C#] public static string UserName {get;}
7	[C++] public:property static String* get_UserName();
8	[VB] Public Shared ReadOnly Property UserName As String
9	[JScript] public static function get UserName() : String;
10	
11	Description
12	Gets the user name of the person who started the current thread.
13	This property can be used to identify the current user to the system and
14	application for security or access purposes. It can also be used to customize a
15	particular application for each user.
16	Version
17	ToString
18	
19	[C#] public static Version Version {get;}
20	[C++] public:property static Version* get_Version();
21	[VB] Public Shared ReadOnly Property Version As Version
22	[JScript] public static function get Version(): Version;
23	
24	Description
25	

Gets a Version object that describes the major, minor, build, and revision 1 numbers of the common language runtime. 2 WorkingSet 3 **ToString** 5 [C#] public static long WorkingSet {get;} 6 [C++] public: __property static __int64 get_WorkingSet(); 7 [VB] Public Shared ReadOnly Property WorkingSet As Long 8 [JScript] public static function get WorkingSet(): long; 9 10 Description 11 Gets the amount of physical memory mapped to the process context. 12 Exit 13 14 [C#] public static void Exit(int exitCode); 15 [C++] public: static void Exit(int exitCode); 16 [VB] Public Shared Sub Exit(ByVal exitCode As Integer) 17 [JScript] public static function Exit(exitCode : int); 18 19 Description 20 Terminates this process and gives the underlying operating system the 21 specified exit code. Exit code to be given to the operating system. 22 ExpandEnvironmentVariables 23 24

[C#] public static string ExpandEnvironmentVariables(string name);

[C++] public: static String* ExpandEnvironmentVariables(String* name);
[VB] Public Shared Function ExpandEnvironmentVariables(ByVal name As
String) As String
[JScript] public static function ExpandEnvironmentVariables(name : String) :
String;
Description
Replaces the name of each environment variable embedded in the spec

Replaces the name of each environment variable embedded in the specified string with the string equivalent of the value of the variable, then returns the resulting string.

Return Value: A System.String with each environment variable replaced by its value.

Replacement only occurs for environment variables that are set. For example, suppose *name* is "MyENV = %MyENV%". If the environment variable, MyENV, is set to 42, this method returns "MyENV = 42". If MyENV is not set, no change occurs; this method returns "MyENV = %MyENV%". A string containing the names of zero or more environment variables. Each environment variable is quoted with the percent sign character ('%').

GetCommandLineArgs

[C#] public static string[] GetCommandLineArgs();
[C++] public: static String* GetCommandLineArgs() __gc[];
[VB] Public Shared Function GetCommandLineArgs() As String()
[JScript] public static function GetCommandLineArgs() : String[];

Description

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Returns a **String** array containing the command line arguments for the current process.

Return Value: An array of System.String where each element contains a command line argument. The first element is the executable file name, and the following zero or more elements contain the remaining command line arguments.

GetEnvironmentVariable

[C#] public static string GetEnvironmentVariable(string variable);

[C++] public: static String* GetEnvironmentVariable(String* variable);

[VB] Public Shared Function GetEnvironmentVariable(ByVal variable As String)

As String

[JScript] public static function GetEnvironmentVariable(variable: String): String;

Description

Returns the value of the specified environment variable.

Return Value: A string containing the value of variable, or **null** if variable is not found. A string containing the name of an environment variable.

GetEnvironmentVariables

[C#] public static IDictionary GetEnvironmentVariables();

[C++] public: static IDictionary* GetEnvironmentVariables();

[VB] Public Shared Function GetEnvironmentVariables() As IDictionary

 $[JScript]\ public\ static\ function\ GetEnvironmentVariables(): IDictionary;$

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Returns all environment variables and their values.

Return Value: An object derived from System.Collections.IDictionary, which can return all environment variables and their values.

GetFolderPath

[C#] public static string GetFolderPath(Environment.SpecialFolder folder);

[C++] public: static String* GetFolderPath(Environment.SpecialFolder folder);

[VB] Public Shared Function GetFolderPath(ByVal folder As

Environment.SpecialFolder) As String

[JScript] public static function GetFolderPath(folder: Environment.SpecialFolder)

: String;

Description

Gets the path to the system special folder identified by the specified enumeration.

This method retrieves the path to a system special folder, such as Program Files, Programs, System, or Startup, which can be used to access common information. The *folder* enumeration specifies the folder to retrieve. Special folders are set by default by the system, or explicitly by the user, when installing a version of Windows. An enumerated constant that identifies a system special folder.

GetLogicalDrives

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1	
2	[C#] public static string[] GetLogicalDrives();
3	[C++] public: static String* GetLogicalDrives()gc[];
4	[VB] Public Shared Function GetLogicalDrives() As String()
5	[JScript] public static function GetLogicalDrives() : String[];
6	
7	Description
8	Returns an array of String containing the names of the logical drives on the
9	current computer.
10	Return Value: An array of System.String where each element contains the name
11	of a logical drive. For example, if the computer's hard drive is the first logical
12	drive, the first element returned is "C:\".
13	EventArgs class (System)
14	ToString
15	
16	
17	Description
18	System.EventArgs is the base class for event data.
19	For more information about events, see the .
20	ToString
21	
22	[C#] public static readonly EventArgs Empty;
23	[C++] public: static EventArgs* Empty;
24	[VB] Public Shared ReadOnly Empty As EventArgs
25	[JScript] public static var Empty : EventArgs;

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Description

Represents an event with no event data.

The value of **System.EventArgs.Empty** is a read-only instance of **System.EventArgs**.

EventArgs

Example Syntax:

ToString

[C#] public EventArgs();

[C++] public: EventArgs();

[VB] Public Sub New()

[JScript] public function EventArgs();

Description

Initializes a new instance of the System. EventArgs class.

This constructor is only called by the common language runtime.

EventHandler delegate (System)

ToString

Description

Represents the method that will handle the event that has no event data. The source of the event. An **EventArgs** that contains the event data.

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The event model in the .NET Framework is based on having an event delegate that connects an event with its handler. To raise an event, two elements are needed: A class that holds the event data. This class must derive from the base class <code>System.EventArgs</code>.

Exception class (System)

ToString

Description

Defines the base class for all exceptions.

Exceptions are responses to abnormal or exceptional conditions that arise while a program is executing. The common language runtime provides an exception handling model that is based on the representation of exceptions as objects, and the separation of program code and exception handling code into try block and catch block, respectively. There can be one or more catch blocks, each designed to handle a particular type of exception, or one block designed to catch a more specific exception than another block.

Exception

Example Syntax:

ToString

[C#] public Exception();

[C++] public: Exception();

[VB] Public Sub New()

[JScript] public function Exception(); Initializes a new instance of the

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1	System.Exception class.
2	
3	Description
4	Initializes a new instance of the System. Exception class with default
5	properties.
6	All the derived classes should provide this default constructor. The
7	following table shows the initial property values for an instance of
8	System.Exception.
9	Exception
10	Example Syntax:
11	ToString
12	
13	[C#] public Exception(string message);
14	[C++] public: Exception(String* message);
15	[VB] Public Sub New(ByVal message As String)
16	[JScript] public function Exception(message : String);
17	
18	Description
19	Initializes a new instance of the System. Exception class with a specified
20	error message.
21	The following table shows the initial property values for an instance of
22	System.Exception. The error message that explains the reason for the exception.
23	Exception
24	Example Syntax:
25	ToString

1	
2	[C#] protected Exception(SerializationInfo info, StreamingContext context);
3	[C++] protected: Exception(SerializationInfo* info, StreamingContext context);
4	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
5	StreamingContext)
6	[JScript] protected function Exception(info: SerializationInfo, context:
7	StreamingContext);
8	
9	Description
10	Initializes a new instance of the System. Exception class with serialized
11	data.
12	This constructor is called during deserialization to reconstitute the
13	exception object transmitted over a stream. For more information, see . The object
14	that holds the serialized object data. The contextual information about the source
15	or destination.
16	Exception
17	Example Syntax:
18	ToString
19	
20	[C#] public Exception(string message, Exception innerException);
21	[C++] public: Exception(String* message, Exception* innerException);
22	[VB] Public Sub New(ByVal message As String, ByVal innerException As
23	Exception)
24	[JScript] public function Exception(message : String, innerException : Exception);
25	

Description

Initializes a new instance of the **System.Exception** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception**X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

HelpLink

ToString

[C#] public virtual string HelpLink {get; set;}

[C++] public: __property virtual String* get_HelpLink();public: __property virtual void set_HelpLink(String*);

[VB] Overridable Public Property HelpLink As String

[JScript] public function get HelpLink() : String;public function set

HelpLink(String);

Description

Gets or sets a link to the help file associated with this exception.

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The return value, which represents a help file, is a URN or URL. For example: "file:///C:/Applications/Bazzal/help.html#ErrorNum42" **HResult ToString** [C#] protected int HResult {get; set;} [C++] protected: __property int get_HResult();protected: __property void set HResult(int); [VB] Protected Property HResult As Integer [JScript] protected function get HResult(): int;protected function set HResult(int); Description Gets or sets HRESULT, a coded numerical value that is assigned to a specific exception. HRESULT is a 32-bit value, divided into three different fields: a severity code, a facility code, and an error code. The severity code indicates whether the return value represents information, warning, or error. The facility code identifies the area of the system responsible for the error. The error code is a unique number that is assigned to represent the exception. Each exception is mapped to a distinct HRESULT. When managed code throws an exception, the runtime passes the HRESULT to the COM client. When unmanaged code returns an error, the HRESULT is converted to an exception, which is then thrown by the runtime. InnerException

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2	[C#] public Exception InnerException {get;}
3	[C++] public:property Exception* get_InnerException();
ı	[VB] Public ReadOnly Property InnerException As Exception
5	[JScript] public function get InnerException(): Exception;
5	
7	Description
8	Gets a reference to the inner exception.
9	You can create a new exception that catches an earlier exception. The code

Message

ToString

[C#] public virtual string Message {get;}

[C++] public: __property virtual String* get_Message();

the earlier exception to handle the error more appropriately.

[VB] Overridable Public ReadOnly Property Message As String

[JScript] public function get Message(): String;

Description

Gets the error message text.

Every exception should carry an error message that provides information about the exception, such as why it is thrown. The **System.Exception.Message** property is set when the exception object is constructed. If an exception is

that handles the second exception can make use of the additional information from

constructed without a supplied error message, this property provides a default message indicating the type of the exception that is thrown. 2 Source 3 **ToString** 5 [C#] public virtual string Source {get; set;} 6 [C++] public: __property virtual String* get_Source();public: __property virtual 7 void set Source(String*); 8 [VB] Overridable Public Property Source As String 9 [JScript] public function get Source(): String; public function set Source(String); 10 11 Description 12 Gets or sets a string containing the name of the application or the object 13 that causes the error. 14 If System.Exception.Source is not set, the name of the assembly where the 15 exception originated is returned. 16 StackTrace 17 **ToString** 18 19 [C#] public virtual string StackTrace {get;} 20 [C++] public: __property virtual String* get_StackTrace(); 21 [VB] Overridable Public ReadOnly Property StackTrace As String 22 [JScript] public function get StackTrace(): String; 24 Description

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Gets the stack trace, which identifies the location in the code where the error occurs.

The execution stack keeps track of all the methods that are in execution at a given instant. A trace of the method calls is called a stack trace with the most recent method call appearing first. The stack trace listing provides a means to follow the call sequence to the line number in the method where the exception occurs.

TargetSite

ToString

[C#] public MethodBase TargetSite {get;}

[C++] public: __property MethodBase* get_TargetSite();

[VB] Public ReadOnly Property TargetSite As MethodBase

[JScript] public function get TargetSite(): MethodBase;

Description

Gets the method that throws this exception.

If the method that throws this exception is not available and the stack trace is not null, System.Exception.TargetSite obtains the method from the stack trace. If the stack trace is null, System.Exception.TargetSite returns null.

GetBaseException

[C#] public virtual Exception GetBaseException();

[C++] public: virtual Exception* GetBaseException();

[VB] Overridable Public Function GetBaseException() As Exception

1	[JScript] public function GetBaseException(): Exception;
2	
3	Description
4	Gets the original exception that is thrown.
5	Return Value: A reference to the original exception object.
6	System. Exception. GetBase Exception returns the original, innermost
7	exception that causes this exception and other related exceptions linked via the
8	System.Exception.InnerException property. If the current exception is the only
9	one thrown, then its reference will be returned.
10	GetObjectData
11	
12	[C#] public virtual void GetObjectData(SerializationInfo info, StreamingContext
13	context);
14	[C++] public: virtual void GetObjectData(SerializationInfo* info,
15	StreamingContext context);
16	[VB] Overridable Public Sub GetObjectData(ByVal info As SerializationInfo,
17	ByVal context As StreamingContext)
18	[JScript] public function GetObjectData(info : SerializationInfo, context :
19	StreamingContext);
20	
21	Description
22	Sets the System.Runtime.Serialization.SerializationInfo object with
23	information about the exception.
24	System.TypeLoadException.GetObjectData(System.Runtime.Serializat
25	ion.SerializationInfo.System.Runtime.Serialization.StreamingContext) sets a

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System.Runtime.Serialization.SerializationInfo with all the exception object data targeted for serialization. During deserialization, the exception object is reconstituted from the System.Runtime.Serialization.SerializationInfo transmitted over the stream. The object that holds the serialized object data. The contextual information about the source or destination.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String;

Description

Returns the fully qualified name of this exception and possibly the error message, the name of the inner exception, and the stack trace.

Return Value: The fully qualified class name, plus possibly the error message, the name of the inner exception, and the stack trace.

If there is no error message or if it is an empty string (""), then no error message is returned. The name of the inner exception and the stack trace are returned only if they are not **null**.

ExecutionEngineException class (System)

ToString

Description

The exception that is thrown when there is an internal error in the execution 1 engine of the common language runtime. This class cannot be inherited. 2 System.ExecutionEngineException uses the HRESULT 3 COR_E_EXECUTIONENGINE, which has the value 0x80131506. ExecutionEngineException 5 Example Syntax: **ToString** 7 8 [C#] public ExecutionEngineException(); [C++] public: ExecutionEngineException(); 10 [VB] Public Sub New() 11 [JScript] public function ExecutionEngineException(); Initializes a new instance 12 of the System. Execution Engine Exception class. 13 14 Description 15 Initializes a new instance of the System. Execution Engine Exception class 16 with default properties. 17 The following table shows the initial property values for an instance of 18 System. Execution Engine Exception. 19 ExecutionEngineException 20 Example Syntax: 21 **ToString** 22 23 [C#] public ExecutionEngineException(string message); 24 [C++] public: ExecutionEngineException(String* message);

1	[VB] Public Sub New(ByVal message As String)
2	[JScript] public function ExecutionEngineException(message : String);
3	
4	Description
5	Initializes a new instance of the System. Execution Engine Exception class
6	with a specified error message.
7	The following table shows the initial property values for an instance of
8	System.ExecutionEngineException . The error message that explains the reason
9	for the exception.
10	ExecutionEngineException
11	Example Syntax:
12	ToString
13	
14	[C#] public ExecutionEngineException(string message, Exception
15	innerException);
16	[C++] public: ExecutionEngineException(String* message, Exception*
17	innerException);
18	[VB] Public Sub New(ByVal message As String, ByVal innerException As
19	Exception)
20	[JScript] public function ExecutionEngineException(message : String,
21	innerException : Exception);
22	
23	Description
24	
25	

Initializes a new instance of the **System.ExecutionEngineException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

FieldAccessException class (System)

ToString

Description

The exception that is thrown when there is an illegal attempt to access a private or protected field inside a class.

1	System.FieldAccessException uses the HRESULT
2	COR_E_FIELDACCESS, which has the value 0x80131507.
3	FieldAccessException
4	Example Syntax:
5	ToString
6	
7	[C#] public FieldAccessException();
8	[C++] public: FieldAccessException();
9	[VB] Public Sub New()
10	[JScript] public function FieldAccessException(); Initializes a new instance of the
11	System.FieldAccessException class.
12	
13	Description
14	Initializes a new instance of the System.FieldAccessException class with
15	default properties.
16	The following table shows the initial property values for an instance of
17	System.FieldAccessException .
18	FieldAccessException
19	Example Syntax:
20	ToString
21	
22	[C#] public FieldAccessException(string message);
23	[C++] public: FieldAccessException(String* message);
24	[VB] Public Sub New(ByVal message As String)
25	[JScript] public function FieldAccessException(message : String);

Description

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Initializes a new instance of the **System.FieldAccessException** class with a specified error message.

The following table shows the initial property values for an instance of **System.FieldAccessException**. The error message that explains the reason for the exception.

FieldAccessException

Example Syntax:

ToString

[C#] protected FieldAccessException(SerializationInfo info, StreamingContext context);

[C++] protected: FieldAccessException(SerializationInfo* info, StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function FieldAccessException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.FieldAccessException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object

that holds the serialized object data. The contextual information about the source or destination.

FieldAccessException

Example Syntax:

ToString

[C#] public FieldAccessException(string message, Exception inner);
[C++] public: FieldAccessException(String* message, Exception* inner);
[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
[JScript] public function FieldAccessException(message: String, inner: Exception);

Description

Initializes a new instance of the **System.FieldAccessException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

HelpLink

HResult

1	InnerException
2	Message
3	Source
4	StackTrace
5	TargetSite
6	FlagsAttribute class (System)
7	ToString
8	
9	
10	Description
11	Custom attribute indicating an enumeration should be treated as a bitfield;
12	that is, a set of flags.
13	Bitfields can be combined using a bitwise OR operation, whereas
14	enumerated constants cannot.
15	FlagsAttribute
16	Example Syntax:
17	ToString
18	
19	[C#] public FlagsAttribute();
20	[C++] public: FlagsAttribute();
21	[VB] Public Sub New()
22	[JScript] public function FlagsAttribute();
23	
24	Description
25	Initializes a new instance of the FlagsAttribute class.

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2	2

TypeId
FormatException class (System)
ToString

Description

The exception that is thrown when the format of an argument does not meet the parameter specifications of the invoked method.

System.FormatException is thrown when the format of an argument in a method invocation does not match the format of the corresponding formal parameter type. For example, if a method specifies a System.String parameter consisting of two digits with an embedded period, passing a corresponding string argument containing only two digits to that method would cause

System.FormatException to be thrown.

FormatException

Example Syntax:

ToString

[C#] public FormatException();

[C++] public: FormatException();

[VB] Public Sub New()

[JScript] public function FormatException(); Initializes a new instance of the

 ${\bf System. Format Exception}\ class.$

Description

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Initializes a new instance of the **System.FormatException** class with default properties.

The following table shows the initial property values for an instance of **System.FormatException**.

FormatException

Example Syntax:

ToString

[C#] public FormatException(string message);

[C++] public: FormatException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function FormatException(message : String);

Description

Initializes a new instance of the **System.FormatException** class with a specified error message.

The following table shows the initial property values for an instance of **System.FormatException**. The error message that explains the reason for the exception.

FormatException

Example Syntax:

ToString

[C#] protected FormatException(SerializationInfo info, StreamingContext context);

1	[C++] protected: FormatException(SerializationInfo* info, StreamingContext
2	context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function FormatException(info: SerializationInfo, context:
6	StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.FormatException class with
10	serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	FormatException
16	Example Syntax:
17	ToString
18	
19	[C#] public FormatException(string message, Exception innerException);
20	[C++] public: FormatException(String* message, Exception* innerException);
21	[VB] Public Sub New(ByVal message As String, ByVal innerException As
22	Exception)
23	[JScript] public function FormatException(message : String, innerException :
24	Exception);
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Description

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Initializes a new instance of the **System.FormatException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

GC class (System)

ToString

Description

Controls the system garbage collector, a service that automatically reclaims unused memory.

Methods in this class influence when an object is garbage collected and when resources allocated by an object are released ("finalized"). Properties in this class provide information about the total amount of memory available in the system and the age category, or "generation", of memory allocated to an object.

MaxGeneration

ToString

[C#] public static int MaxGeneration {get;}

[C++] public: _property static int get_MaxGeneration();

[VB] Public Shared ReadOnly Property MaxGeneration As Integer

[JScript] public static function get MaxGeneration(): int;

Description

Gets the maximum number of generations the system currently supports.

A "generation" number indicates the relative age of each segment of allocated memory. The newest memory is in generation zero and the oldest memory is in generation MaxGeneration. The garbage collector service improves its performance by adjusting generation numbers each time it reclaims memory, then taking into consideration newer memory is more likely to be eligible for garbage collection than older memory.

Collect

[C#] public static void Collect();

1	[C++] public: static void Collect();
2	[VB] Public Shared Sub Collect()
3	[JScript] public static function Collect();
4	
5	Description
6	Forces garbage collection of all generations.
7	Collect
8	
9	[C#] public static void Collect(int generation);
10	[C++] public: static void Collect(int generation);
11	[VB] Public Shared Sub Collect(ByVal generation As Integer)
12	[JScript] public static function Collect(generation: int); Forces garbage collection.
13	
14	Description
15	Forces garbage collection from generation zero through a specified
16	generation. The maximum generation to garbage collect.
17	GetGeneration
18	
19	[C#] public static int GetGeneration(object obj);
20	[C++] public: static int GetGeneration(Object* obj);
21	[VB] Public Shared Function GetGeneration(ByVal obj As Object) As Integer
22	[JScript] public static function GetGeneration(obj : Object) : int; Returns the
23	current generation of an object.
24	
25	Description

Description

Returns the current generation of a specified object. 1 Return Value: The current generation of obj . The object for which generation 2 information is retrieved. 3 GetGeneration 5 [C#] public static int GetGeneration(WeakReference wo); 6 [C++] public: static int GetGeneration(WeakReference* wo); 7 [VB] Public Shared Function GetGeneration(ByVal wo As WeakReference) As 8 Integer 9 [JScript] public static function GetGeneration(wo: WeakReference): int; 10 11 Description 12 Returns the current generation of the target of a specified weak reference. 13 Return Value: The current generation of the target of wo. The weak reference of a 14 target. 15 GetTotalMemory 16 17 [C#] public static long GetTotalMemory(bool forceFullCollection); 18 [C++] public: static __int64 GetTotalMemory(bool forceFullCollection); 19 [VB] Public Shared Function GetTotalMemory(ByVal forceFullCollection As 20 Boolean) As Long 21 $[JScript]\ public\ static\ function\ Get Total Memory (force Full Collection: Boolean):$ 22 long; 23 24

Retrieves the number of bytes currently thought to be allocated. A parameter indicates whether this method should wait a short interval before returning while the system garbage collects and finalizes objects.

If forceFullCollection is true, this method waits a short interval before returning while the system garbage collects and finalizes objects. The duration of the interval is an internally specified limit determined by the number of garbage collection cycles completed and the change in the amount of memory recovered between cycles. A Boolean value, which if true indicates this method should wait before returning.

KeepAlive

[C#] public static void KeepAlive(object obj);

[C++] public: static void KeepAlive(Object* obj);

[VB] Public Shared Sub KeepAlive(ByVal obj As Object)

[JScript] public static function KeepAlive(obj : Object);

Description

References the specified object, making it ineligible for garbage collection from the start of the current routine to the point where this method is called.

When calling methods in unmanaged code (such as Win32 APIs, unmanaged DLLs, or methods using COM), it is sometimes necessary to indicate a particular object should not be garbage collected, even though there are no references to it from managed code or data. The object to reference.

ReRegisterForFinalize

1	
2	[C#] public static void ReRegisterForFinalize(object obj);
3	[C++] public: static void ReRegisterForFinalize(Object* obj);
4	[VB] Public Shared Sub ReRegisterForFinalize(ByVal obj As Object)
5	[JScript] public static function ReRegisterForFinalize(obj : Object);
6	
7	Description
8	Requests the system call the finalizer method for the specified object, for
9	which SuppressFinalize has previously been called.
10	A finalizer can use this method to resurrect itself or an object it references
11	The object for which a finalizer should be called.
12	SuppressFinalize
13	
14	[C#] public static void SuppressFinalize(object obj);
15	[C++] public: static void SuppressFinalize(Object* obj);
16	[VB] Public Shared Sub SuppressFinalize(ByVal obj As Object)
17	[JScript] public static function SuppressFinalize(obj : Object);
18	
19	Description
20	Requests the system not call the finalizer method for the specified object.
21	The object for which a finalizer should not be called.
22	WaitForPendingFinalizers
23	
24	[C#] public static void WaitForPendingFinalizers();
25	[C++] public: static void WaitForPendingFinalizers();

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Description Description

[VB] Public Shared Sub WaitForPendingFinalizers()

[JScript] public static function WaitForPendingFinalizers();

Suspends the current thread until the thread processing the queue of finalizers has emptied that queue.

Finalizers are run on a separate thread of execution, so there is no guarantee this method will terminate. However, this thread can be interrupted by another thread while this method is in progress. This means you can start another thread that waits for a period of time, then interrupts this thread if it is still suspended.

Guid structure (System)

WaitForPendingFinalizers

Represents a globally unique identifier (GUID).

A GUID is a 128-bit integer (16 bytes) that can be used across all computers and networks wherever a unique identifier is required. Such an identifier has a very low probability of being duplicated.

WaitForPendingFinalizers

[C#] public static readonly Guid Empty;

[C++] public: static Guid Empty;

[VB] Public Shared ReadOnly Empty As Guid

[JScript] public static var Empty: Guid;

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Description Initializes a new instance of the Guid class. 3 Guid Example Syntax: WaitForPendingFinalizers 7 [C#] public Guid(byte[] b); 8 [C++] public: Guid(unsigned char b __gc[]); [VB] Public Sub New(ByVal b() As Byte) 10 [JScript] public function Guid(b : Byte[]); Initializes a new instance of the Guid 11 class. 12 13 Description 14 Initializes a new instance of the Guid class using the specified array of 15 bytes. A 16 element byte array containing values with which to initialize the GUID. 17 Guid 18 Example Syntax: 19 WaitForPendingFinalizers 20 21 [C#] public Guid(string g); 22 [C++] public: Guid(String* g); [VB] Public Sub New(ByVal g As String) 24 [JScript] public function Guid(g: String);

Description

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Initializes a new instance of the **Guid** class using the value represented by the specified string.

Guid

Example Syntax:

WaitForPendingFinalizers

[C#] public Guid(int a, short b, short c, byte[] d);

[C++] public: Guid(int a, short b, short c, unsigned char d __gc[]);

[VB] Public Sub New(ByVal a As Integer, ByVal b As Short, ByVal c As Short,

ByVal d() As Byte)

[JScript] public function Guid(a: int, b: Int16, c: Int16, d: Byte[]);

Description

Initializes a new instance of the **Guid** class using the specified integers and byte array. The first 4 bytes of the GUID. The next 2 bytes of the GUID. The next 2 bytes of the GUID. The remaining 8 bytes of the GUID.

Guid

Example Syntax:

WaitForPendingFinalizers

[C#] public Guid(int a, short b, short c, byte d, byte e, byte f, byte g, byte h, byte i, byte j, byte k);

[C++] public: Guid(int a, short b, short c, unsigned char d, unsigned char e, unsigned char f, unsigned char g, unsigned char h, unsigned char i, unsigned char i, unsigned char i, unsigned char k);

[VB] Public Sub New(ByVal a As Integer, ByVal b As Short, ByVal c As Short, ByVal d As Byte, ByVal e As Byte, ByVal f As Byte, ByVal g As Byte, ByVal h As Byte, ByVal i As Byte, ByVal j As Byte, ByVal k As Byte)

[JScript] public function Guid(a: int, b: Int16, c: Int16, d: Byte, e: Byte, f:

Byte, g: Byte, h: Byte, i: Byte, j: Byte, k: Byte);

Description

Initializes a new instance of the **Guid** class using the specified integers and bytes.

Specifying individual bytes in this manner can be used to circumvent byte order restrictions ("big endian" or "little endian" byte order) on particular types of computers. The first 4 bytes of the GUID. The next 2 bytes of the GUID. The next 2 bytes of the GUID. The next byte of the GUID.

Guid

Example Syntax:

WaitForPendingFinalizers

[C#] public Guid(uint a, ushort b, ushort c, byte d, byte e, byte f, byte g, byte h, byte i, byte j, byte k);

[C++] public: Guid(unsigned int a, unsigned short b, unsigned short c, unsigned char d, unsigned char e, unsigned char f, unsigned char g, unsigned char h, unsigned char i, unsigned char j, unsigned char k);

[VB] Public Sub New(ByVal a As UInt32, ByVal b As UInt16, ByVal c As
UInt16, ByVal d As Byte, ByVal e As Byte, ByVal f As Byte, ByVal g As Byte,
ByVal h As Byte, ByVal i As Byte, ByVal j As Byte, ByVal k As Byte)
[JScript] public function Guid(a: UInt32, b: UInt16, c: UInt16, d: Byte, e: Byte,
f: Byte, g: Byte, h: Byte, i: Byte, j: Byte, k: Byte);

Description

Initializes a new instance of the **Guid** class using the specified unsigned integers and bytes.

Specifying the bytes in this manner avoids endianness issues. The first 4 bytes of the GUID. The next 2 bytes of the GUID. The next 2 bytes of the GUID. The next byte of the GUID.

CompareTo

[C#] public int CompareTo(object value);

[C++] public: __sealed int CompareTo(Object* value);

1	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
2	Integer
3	[JScript] public function CompareTo(value : Object) : int;
4	
5	Description
6	Compares this instance to a specified object and returns an indication of
7	their relative values.
8	Return Value: A signed number indicating the relative values of this instance and
9	value .
10	Any instance of Guid, regardless of its value, is considered greater than
11	null. An object to compare, or null.
12	Equals
13	
14	[C#] public override bool Equals(object o);
15	[C++] public: bool Equals(Object* o);
16	[VB] Overrides Public Function Equals(ByVal o As Object) As Boolean
17	[JScript] public override function Equals(o : Object) : Boolean;
18	
19	Description
20	Returns a value indicating whether this instance is equal to a specified
21	object.
22	Return Value: true if o is a Guid that has the same value as this instance;
23	otherwise, false. The object to compare with this instance.
24	GetHashCode
25	

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2	[C#] public override int GetHashCode();
3	[C++] public: int GetHashCode();
4	[VB] Overrides Public Function GetHashCode() As Integer
5	[JScript] public override function GetHashCode(): int;
6	
7	Description
8	Returns the hash code for this instance.
9	Return Value: The hash code for this instance.
10	NewGuid
11	
12	[C#] public static Guid NewGuid();
13	[C++] public: static Guid NewGuid();
14	[VB] Public Shared Function NewGuid() As Guid
15	[JScript] public static function NewGuid() : Guid;
16	
17	Description
18	Initializes a new instance of the Guid class.
19	Return Value: A new Guid object.
20	This is a convenient static method that you can call to get a new Guid.
21	op_Equality
22	
23	[C#] public static bool operator ==(Guid a, Guid b);
24	[C++] public: static bool op_Equality(Guid a, Guid b);
25	[VB] returnValue = Guid.op_Equality(a, b)

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1	[JScript] returnValue = a == b;
2	
3	Description
4	Returns an indication whether the values of two specified Guid objects are
5	equal.
6	Return Value: true if a and b are equal; otherwise, false. A Guid object. A Guid
7	object.
8	op_Inequality
9	
10	[C#] public static bool operator !=(Guid a, Guid b);
11	[C++] public: static bool op_Inequality(Guid a, Guid b);
12	[VB] returnValue = Guid.op_Inequality(a, b)
13	[JScript] returnValue = a != b;
14	
15	Description
16	Returns an indication whether the values of two specified Guid objects are
17	not equal.
18	Return Value: true if a and b are not equal; otherwise, false. A Guid object. A
19	Guid object.
20	ToByteArray
21	
22	[C#] public byte[] ToByteArray();
23	[C++] public: unsigned char ToByteArray()gc[];
24	[VB] Public Function ToByteArray() As Byte()
25	[JScript] public function ToByteArray() : Byte[];

Description

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Returns a 16-element byte array that contains the value of the GUID.

Return Value: A 16-element byte array.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Returns a **String** representation of the value of this instance of the **Guid** class.

Description

Returns a **String** representation of the value of this instance in Registry format.

This method provides a default GUID format that is sufficient for typical use; however, other versions of this method that take a format parameter provide a few common format variations.

ToString

1	
2	[C#] public string ToString(string format);
3	[C++] public: String* ToString(String* format);
4	[VB] Public Function ToString(ByVal format As String) As String
5	[JScript] public function ToString(format : String) : String;
6	
7	Description
8	Returns a String representation of the value of this Guid instance,
9	according to the provided format specifier.
10	Return Value: A System.String representation of the value of this Guid instance.
11	format can contain the following format specifiers. In the table that follows,
12	all digits in the return value are hexadecimal. Each character 'x' represents a
13	hexadecimal digit; each hyphen ('-'), bracket ('{', '}'), and parenthesis ('(', ')')
14	appears as shown. A String containing a single format specifier character
15	indicating how the GUID value should be formatted.
16	ToString
17	
18	[C#] public string ToString(string format, IFormatProvider provider);
19	[C++] public:sealed String* ToString(String* format, IFormatProvider*
20	provider);
21	[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal
22	provider As IFormatProvider) As String
23	[JScript] public function ToString(format : String, provider : IFormatProvider) :
24	String;
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Returns a **String** representation of the value of this instance of the **Guid** class, according to the provided format specifier and culture-specific format information.

Return Value: A System.String representation of the value of this Guid instance.

format can contain the following format specifiers. In the table that follows, all digits in the return value are hexadecimal. Each character 'x' represents a hexadecimal digit; each hyphen ('-'), bracket ('{', '}'), and parenthesis ('(', ')') appears as shown. A **String** containing a single format specifier character indicating how the GUID value should be formatted. (Reserved) An

IFormatProvider reference that supplies culture-specific formatting services.

IAppDomainSetup interface (System)

ToString

Description

ApplicationBase

ToString

[C#] string ApplicationBase {get; set;}

[C++] String* get ApplicationBase(); void set ApplicationBase(String*);

[VB] Property ApplicationBase As String

[JScript] abstract function get ApplicationBase(): String; public abstract function

	1	set ApplicationBase(String);
	2	
	3	Description
	4	
	5	ApplicationName
	6	ToString
	7	
	8	[C#] string ApplicationName {get; set;}
ಪಜ್ಞ	9	[C++] String* get_ApplicationName();void set_ApplicationName(String*);
	10	[VB] Property ApplicationName As String
der diese Kein Kans King King King King	11	[JScript] abstract function get ApplicationName(): String; public abstract function
	12	set ApplicationName(String);
Å.	13	
	14	Description
of the state of th	15	
d L	16	CachePath
	17	ToString
	18	
	19	[C#] string CachePath {get; set;}
	20	[C++] String* get_CachePath();void set_CachePath(String*);
	21	[VB] Property CachePath As String
	22	[JScript] abstract function get CachePath(): String; public abstract function set
	23	CachePath(String);
	24	
	25	Description

11	
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2	ConfigurationFile
3	ToString
4	
5	[C#] string ConfigurationFile {get; set;}
6	[C++] String* get_ConfigurationFile();void set_ConfigurationFile(String*);
7	[VB] Property ConfigurationFile As String
8	[JScript] abstract function get ConfigurationFile(): String; public abstract function
9	set ConfigurationFile(String);
10	
11	Description
12	
13	DynamicBase
14	ToString
15	
16	[C#] string DynamicBase {get; set;}
17	[C++] String* get_DynamicBase();void set_DynamicBase(String*);
18	[VB] Property DynamicBase As String
19	[JScript] abstract function get DynamicBase() : String;public abstract function set
20	DynamicBase(String);
21	
22	Description
23	
24	LicenseFile
25	ToString

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1	
2	[C#] string LicenseFile {get; set;}
3	[C++] String* get_LicenseFile();void set_LicenseFile(String*);
4	[VB] Property LicenseFile As String
5	[JScript] abstract function get LicenseFile(): String; public abstract function set
6	LicenseFile(String);
7	
8	Description
9	
10	PrivateBinPath
11	ToString
12	
13	[C#] string PrivateBinPath {get; set;}
14	[C++] String* get_PrivateBinPath();void set_PrivateBinPath(String*);
15	[VB] Property PrivateBinPath As String
16	[JScript] abstract function get PrivateBinPath(): String; public abstract function se
17	PrivateBinPath(String);
18	
19	Description
20	
21	PrivateBinPathProbe
22	ToString
23	
24	[C#] string PrivateBinPathProbe {get; set;}
25	[C++] String* get_PrivateBinPathProbe();void set_PrivateBinPathProbe(String*);
	·

1	[VB] Property PrivateBinPathProbe As String
2	[JScript] abstract function get PrivateBinPathProbe(): String;public abstract
3	function set PrivateBinPathProbe(String);
4	
5	Description
6	
7	ShadowCopyDirectories
8	ToString
9	
10	[C#] string ShadowCopyDirectories {get; set;}
11	[C++] String* get_ShadowCopyDirectories();void
12	set_ShadowCopyDirectories(String*);
13	[VB] Property ShadowCopyDirectories As String
14	[JScript] abstract function get ShadowCopyDirectories(): String;public abstract
15	function set ShadowCopyDirectories(String);
16	
17	Description
18	
19	ShadowCopyFiles
20	ToString
21	
22	[C#] string ShadowCopyFiles {get; set;}
23	[C++] String* get_ShadowCopyFiles();void set_ShadowCopyFiles(String*);
24	[VB] Property ShadowCopyFiles As String
25	[JScript] abstract function get ShadowCopyFiles(): String; public abstract function

1	set ShadowCopyFiles(String);
2	
3	Description
4	
5	IAsyncResult interface (System)
6	ToString
7	
8	
9	Description
10	Represents the the status on an asynchronous operation.
11	The System.IAsyncResult interface is implemented by classes containing
12	methods that can operate asynchronously. It is the return type of the "BeginXXX"
13	method that initiates an asynchronous operation, and is the type of the third
14	parameter of the "EndXXX" method that concludes an asynchronous operation.
15	AsyncState
16	ToString
17	
18	[C#] object AsyncState {get;}
19	[C++] Object* get_AsyncState();
20	[VB] ReadOnly Property AsyncState As Object
21	[JScript] abstract function get AsyncState() : Object;
22	
23	Description
24	Gets a user-defined object that qualifies or contains information about an
25	asynchronous operation.

The state of the s

1	This property returns the object that is the last parameter of the
2	"BeginXXX" method that initiates an asynchronous operation.
3	AsyncWaitHandle
4	ToString
5	
6	[C#] WaitHandle AsyncWaitHandle {get;}
7	[C++] WaitHandle* get_AsyncWaitHandle();
8	[VB] ReadOnly Property AsyncWaitHandle As WaitHandle
9	[JScript] abstract function get AsyncWaitHandle(): WaitHandle;
10	
11	Description
12	Gets a System. Threading. Wait Handle instance that is used to wait for an
13	asynchronous operation to complete.
14	The return value enables the client to wait for an asynchronous operation to
15	complete instead of polling System.IAsyncResult.IsCompleted until the
16	operation concludes. The return value can be used to perform a
17	System.Threading.WaitHandle.WaitOne(System.Int32,System.Boolean),
18	System.Threading.WaitHandle.WaitAny(System.Threading.WaitHandle[],Sy
19	stem.Int32,System.Boolean), or
20	System.Threading.WaitHandle.WaitAll(System.Threading.WaitHandle[],Syst
21	em.Int32,System.Boolean) operation.
22	CompletedSynchronously
23	ToString
24	
25	IC#1 bool CompletedSynchronously {get;}

The state of the s

1	[C++] bool get_CompletedSynchronously();
2	[VB] ReadOnly Property CompletedSynchronously As Boolean
3	[JScript] abstract function get CompletedSynchronously(): Boolean;
4	
5	Description
6	Gets an indication whether the "BeginXXX" call completed synchronously.
7	If the synchronous completion of the call is detected in the
8	System.AsyncCallback delegate, it is probable that the thread that called
9	"BeginXXX" is the current thread. Most implementers of the
10	System.IAsyncResult interface will not use this ability and will return false.
11	IsCompleted
12	ToString
13	
14	[C#] bool IsCompleted {get;}
15	[C++] bool get_IsCompleted();
16	[VB] ReadOnly Property IsCompleted As Boolean
17	[JScript] abstract function get IsCompleted(): Boolean;
18	
19	Description
20	Gets an indication whether the asynchronous operation is finished.
21	Implementers will typically return the value of a private field or internal
22	test as the value of this property.
23	ICloneable interface (System)
24	ToString
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Description

Supports cloning, which creates a new instance of a class with the same value as an existing instance.

The **System.ICloneable** interface contains one member, **System.ICloneable.Clone**, which is intended to support cloning beyond that supplied by **System.Object.MemberwiseClone**.

Clone

[C#] object Clone();

[C++] Object* Clone();

[VB] Function Clone() As Object

[JScript] function Clone(): Object;

Description

Creates a new object that is a copy of the current instance.

Return Value: A new object that is a copy of this instance.

System.ICloneable.Clone can be implemented either as a deep copy or a shallow copy. In a deep copy, all objects are duplicated; whereas, in a shallow copy, only the top-level objects are duplicated and the lower levels contain references.

IComparable interface (System)

Clone

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Defines a generalized comparison method, which a value type or class implements to create a type-specific comparison method.

This interface is implemented by types whose values can be ordered; for example, the numeric and string classes.

CompareTo

[C#] int CompareTo(object obj);

[C++] int CompareTo(Object* obj);

[VB] Function CompareTo(ByVal obj As Object) As Integer

[JScript] function CompareTo(obj : Object) : int;

Description

Compares the current instance with another object of the same type.

Return Value: A 32-bit signed integer that indicates the relative order of the comparands. The return value has these meanings: Value Meaning Less than zero This instance is less than obj.

This method is only a definition and must be implemented by a specific class or value type to have effect. The meaning of the comparisons, "less than," "equal to," and "greater than," depends on the particular implementation. An object to compare with this instance.

IConvertible interface (System)

CompareTo

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efines methods that convert the value of the implementing reference or e to a common language runtime type that has an equivalent value.

nis interface provides methods to convert the value of an instance of an nting type to a common language runtime type that has an equivalent e common language runtime types are System.Boolean, System.SByte, System.Byte, System.Int16, System.UInt16, System.Int32, System.UInt32, System.Int64, System.UInt64, System.Single, System.Double, System.Decimal, System.DateTime, System.Char, and System.String.

GetTypeCode

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[C#] bool ToBoolean(IFormatProvider provider);

[C#] TypeCode GetTypeCode();

[C++] TypeCode GetTypeCode();

[VB] Function GetTypeCode() As TypeCode

[JScript] function GetTypeCode(): TypeCode;

Description

Returns the **System.TypeCode** for this instance.

Return Value: The enumerated constant that is the System. TypeCode of the class or value type that implements this interface.

ToBoolean

1	[C++] bool ToBoolean(IFormatProvider* provider);
2	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
3	[JScript] function ToBoolean(provider : IFormatProvider) : Boolean;
4	
5	Description
6	Converts the value of this instance to an equivalent Boolean value using the
7	specified culture-specific formatting information.
8	Return Value: A Boolean value equivalent to the value of this instance. An
9	System.IFormatProvider interface implementation that supplies culture-specific
10	formatting information.
11	ToByte
12	
13	[C#] byte ToByte(IFormatProvider provider);
14	[C++] unsigned char ToByte(IFormatProvider* provider);
15	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte
16	[JScript] function ToByte(provider : IFormatProvider) : Byte;
17	
18	Description
19	Converts the value of this instance to an equivalent 8-bit unsigned integer
20	using the specified culture-specific formatting information.
21	Return Value: An 8-bit unsigned integer equivalent to the value of this instance.
22	An System.IFormatProvider interface implementation that supplies culture-
23	specific formatting information.
24	ToChar
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2	[C#] char ToChar(IFormatProvider provider);
3	[C++]wchar_t ToChar(IFormatProvider* provider);
4	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char
5	[JScript] function ToChar(provider : IFormatProvider) : Char;
6	
7	Description
8	Converts the value of this instance to an equivalent Unicode character using
9	the specified culture-specific formatting information.
10	Return Value: A Unicode character equivalent to the value of this instance. An
11	System.IFormatProvider interface implementation that supplies culture-specific
12	formatting information.
13	ToDateTime
14	
15	[C#] DateTime ToDateTime(IFormatProvider provider);
16	[C++] DateTime ToDateTime(IFormatProvider* provider);
17	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
18	[JScript] function ToDateTime(provider : IFormatProvider) : DateTime;
19	
20	Description
21	Converts the value of this instance to an equivalent System.DateTime
22	using the specified culture-specific formatting information.
23	Return Value: A System.DateTime instance equivalent to the value of this
24	instance. An System.IFormatProvider interface implementation that supplies
25	culture-specific formatting information.

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[C#] decimal ToDecimal(IFormatProvider provider);

[C++] Decimal ToDecimal(IFormatProvider* provider);

[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal

[JScript] function ToDecimal(provider: IFormatProvider): Decimal;

Description

Converts the value of this instance to an equivalent **System.Decimal** number using the specified culture-specific formatting information.

Return Value: A System.Decimal number equivalent to the value of this instance.

An **System.IFormatProvider** interface implementation that supplies culturespecific formatting information.

ToDouble

[C#] double ToDouble(IFormatProvider provider);

[C++] double ToDouble(IFormatProvider* provider);

[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double

[JScript] function ToDouble(provider: IFormatProvider): double;

Description

Converts the value of this instance to an equivalent double-precision floating-point number using the specified culture-specific formatting information.

Return Value: A double-precision floating-point number equivalent to the value of

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this instance. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. 2 ToInt16 3 [C#] short ToInt16(IFormatProvider provider); [C++] short ToInt16(IFormatProvider* provider); [VB] Function ToInt16(ByVal provider As IFormatProvider) As Short [JScript] function ToInt16(provider : IFormatProvider) : Int16; 9 Description 10 Converts the value of this instance to an equivalent 16-bit signed integer 11 using the specified culture-specific formatting information. 12 Return Value: An 16-bit signed integer equivalent to the value of this instance. An 13 System.IFormatProvider interface implementation that supplies culture-specific 14 formatting information. 15 ToInt32 16 17 [C#] int ToInt32(IFormatProvider provider); 18 [C++] int ToInt32(IFormatProvider* provider); 19 [VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer [JScript] function ToInt32(provider : IFormatProvider) : int; 21 22 Description 23 Converts the value of this instance to an equivalent 32-bit signed integer 24 using the specified culture-specific formatting information.

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Return Value: An 32-bit signed integer equivalent to the value of this instance. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToInt64

[C#] long ToInt64(IFormatProvider provider);

[C++] __int64 ToInt64(IFormatProvider* provider);

[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long

[JScript] function ToInt64(provider : IFormatProvider) : long;

Description

Converts the value of this instance to an equivalent 64-bit signed integer using the specified culture-specific formatting information.

Return Value: An 64-bit signed integer equivalent to the value of this instance. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToSByte

[C#] sbyte ToSByte(IFormatProvider provider);

[C++] char ToSByte(IFormatProvider* provider);

[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte

[JScript] function ToSByte(provider : IFormatProvider) : SByte;

Description

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Converts the value of this instance to an equivalent 8-bit signed integer using the specified culture-specific formatting information.

Return Value: An 8-bit signed integer equivalent to the value of this instance. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToSingle

[C#] float ToSingle(IFormatProvider provider);

[C++] float ToSingle(IFormatProvider* provider);

[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single [JScript] function ToSingle(provider : IFormatProvider) : float;

Description

Converts the value of this instance to an equivalent single-precision floating-point number using the specified culture-specific formatting information. *Return Value:* A single-precision floating-point number equivalent to the value of this instance. An **System.IFormatProvider** interface implementation that supplies culture-specific formatting information.

ToString

[C#] string ToString(IFormatProvider provider);

[C++] String* ToString(IFormatProvider* provider);

[VB] Function ToString(ByVal provider As IFormatProvider) As String

[JScript] function ToString(provider : IFormatProvider) : String;

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Description

Converts the value of this instance to an equivalent **System.String** using the specified culture-specific formatting information.

Return Value: A System.String instance equivalent to the value of this instance. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToType

[C#] object ToType(Type conversionType, IFormatProvider provider);

[C++] Object* ToType(Type* conversionType, IFormatProvider* provider);

[VB] Function ToType(ByVal conversionType As Type, ByVal provider As

IFormatProvider) As Object

[JScript] function ToType(conversionType : Type, provider : IFormatProvider) : Object;

Description

Converts the value of this instance to an **System.Object** of the specified **System.Type** that has an equivalent value, using the specified culture-specific formatting information.

Return Value: An System.Object instance of type conversionType whose value is equivalent to the value of this instance. The System.Type to which the value of this instance is converted. An System.IFormatProvider interface implementation that supplies culture-specific formatting information.

ToUInt16

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[C#] ushort ToUInt16(IFormatProvider provider); [C++] unsigned short ToUInt16(IFormatProvider* provider); 3 [VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16 4 [JScript] function ToUInt16(provider: IFormatProvider): UInt16; 5 6 Description 7 Converts the value of this instance to an equivalent 16-bit unsigned integer 8 using the specified culture-specific formatting information. 9 Return Value: An 16-bit unsigned integer equivalent to the value of this instance. 10 An System.IFormatProvider interface implementation that supplies culture-11 specific formatting information. 12 ToUInt32 13 14 [C#] uint ToUInt32(IFormatProvider provider); 15 [C++] unsigned int ToUInt32(IFormatProvider* provider); 16 [VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32 17 [JScript] function ToUInt32(provider : IFormatProvider) : UInt32; 18 19 Description 20 Converts the value of this instance to an equivalent 32-bit unsigned integer 21 using the specified culture-specific formatting information. 22 Return Value: An 32-bit unsigned integer equivalent to the value of this instance. 23 An System.IFormatProvider interface implementation that supplies culture-24 specific formatting information. 25

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[C#] ulong ToUInt64(IFormatProvider provider);

[C++] unsigned __int64 ToUInt64(IFormatProvider* provider);

[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64

[JScript] function ToUInt64(provider : IFormatProvider) : UInt64;

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Converts the value of this instance to an equivalent 64-bit unsigned integer using the specified culture-specific formatting information.

Return Value: An 64-bit unsigned integer equivalent to the value of this instance.

An **System.IFormatProvider** interface implementation that supplies culturespecific formatting information.

ICustomFormatter interface (System)

ToUInt64

Description

Defines a method that supports custom, user-defined formatting of the value of an object.

When this interface is implemented by a reference or value type, the System.ICustomFormatter.Format(System.String,System.Object,System.IFor matProvider) method returns a custom-formatted string representation of an object's value.

Format

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[C#] string Format(string format, object arg, IFormatProvider formatProvider); 2 [C++] String* Format(String* format, Object* arg, IFormatProvider* 3 formatProvider); 4 [VB] Function Format(ByVal format As String, ByVal arg As Object, ByVal 5 formatProvider As IFormatProvider) As String 6 [JScript] function Format(format : String, arg : Object, formatProvider : 7 IFormatProvider) : String; 8 9 Description 10 Converts the value of a specified object to an equivalent string 11 representation using specified format and culture-specific formatting information. 12 Return Value: The string representation of the value of arg, formatted as specified 13

The *format* parameter contains a user-defined formatting specification. For more information about standard .NET Framework formatting specifications, see . A format string containing formatting specifications. An object to format. An **System.IFormatProvider** object that supplies format information about the current instance.

IDisposable interface (System)

Format

by format and formatProvider.

Description

Defines a method to release allocated unmanaged resources.

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The common language runtime garbage collector automatically releases memory allocated to a managed object when that object is no longer used. Furthermore, it is unpredictable when garbage collection will occur. However, the garbage collector has no knowledge of unmanaged resources, such as window handles and open files and streams.

Dispose

[C#] void Dispose();

[C++] void Dispose();

[VB] Sub Dispose()

[JScript] function Dispose();

Description

Releases unmanaged resources.

Use this method to close or release unmanaged resources such as files, streams, and handles, held by an instance of the class that implements this interface.

IFormatProvider interface (System)

Dispose

Description

Provides a mechanism for retrieving an object to control formatting.

A class or value type implements the

System.IFormatProvider.GetFormat(System.Type) method of this interface to

1	obtain an object that provides format information or processing for the
2	implementing type.
3	GetFormat
4	
5	[C#] object GetFormat(Type formatType);
6	[C++] Object* GetFormat(Type* formatType);
7	[VB] Function GetFormat(ByVal formatType As Type) As Object
8	[JScript] function GetFormat(formatType : Type) : Object;
9	
10	Description
11	Gets the format object of the specified type.
12	Return Value: A format object of type formatType -or- null if there is no format
13	object of type formatType. An object that specifies the type of format object to
14	get.
15	IFormattable interface (System)
16	GetFormat
17	
18	
19	Description
20	Provides functionality to format the value of an object into a string
21	representation.
22	System.IFormattable is implemented by the base data types.
23	ToString
24	
25	[C#] string ToString(string format, IFormatProvider formatProvider);

1	[C++] String* ToString(String* format, IFormatProvider* formatProvider);
2	[VB] Function ToString(ByVal format As String, ByVal formatProvider As
3	IFormatProvider) As String
4	[JScript] function ToString(format : String, formatProvider : IFormatProvider) :
5	String;
6	
7	Description
8	Formats the value of the current instance using the specified format.
9	Return Value: A System.String containing the value of the current instance in the
10	specified format.
11	System.Globalization.NumberFormatInfo,
12	System.Globalization.DateTimeFormatInfo and
13	System.Globalization.CultureInfo implement the System.IFormatProvider
14	interface. The System.String specifying the format to use. The
15	System.IFormatProvider to use to format the value.
16	IndexOutOfRangeException class (System)
17	ToString
18	
19	
20	Description
21	The exception that is thrown when an attempt is made to access an element
22	of an array with an index that is outside the bounds of the array. This class cannot
23	be inherited.
24	System.IndexOutOfRangeException uses the HRESULT
25	COR_E_INDEXOUTOFRANGE, which has the value 0x80131508.

1	IndexOutOfRangeException
2	Example Syntax:
3	ToString
4	
5	[C#] public IndexOutOfRangeException();
6	[C++] public: IndexOutOfRangeException();
7	[VB] Public Sub New()
8	[JScript] public function IndexOutOfRangeException(); Initializes a new instance
9	of the System.IndexOutOfRangeException class.
10	
11	Description
12	Initializes a new instance of the System.IndexOutOfRangeException
13	class with default properties.
14	The following table shows the initial property values for an instance of
15	System.IndexOutOfRangeException .
16	IndexOutOfRangeException
17	Example Syntax:
18	ToString
19	
20	[C#] public IndexOutOfRangeException(string message);
21	[C++] public: IndexOutOfRangeException(String* message);
22	[VB] Public Sub New(ByVal message As String)
23	[JScript] public function IndexOutOfRangeException(message : String);
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25	Description

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Initializes a new instance of the **System.IndexOutOfRangeException** class with a specified error message.

The following table shows the initial property values for an instance of **System.IndexOutOfRangeException**. The error message that explains the reason for the exception.

IndexOutOfRangeException

Example Syntax:

ToString

[C#] public IndexOutOfRangeException(string message, Exception innerException);

[C++] public: IndexOutOfRangeException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function IndexOutOfRangeException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.IndexOutOfRangeException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the

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constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If *innerException* is non-null, then the current **Exception** is raised in a catch block handling *innerException*.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

Int16 structure (System)

ToString

Description

Represents a 16-bit signed integer.

The **Int16** value type represents signed integers with values ranging from negative 32768 through positive 32767.

ToString

[C#] public const short MaxValue;

[C++] public: const short MaxValue;

[VB] Public Const MaxValue As Short

1	[JScript] public var MaxValue : Int16;
2	
3	Description
4	A constant representing the largest possible value of Int16.
5	The value of this constant is 32767; that is, hexadecimal 0x7FFF.
6	ToString
7	
8	[C#] public const short MinValue;
9	[C++] public: const short MinValue;
10	[VB] Public Const MinValue As Short
11	[JScript] public var MinValue : Int16;
12	
13	Description
14	A constant representing the smallest possible value of Int16.
15	The value of this constant is -32768; that is, hexadecimal 0x8000.
16	CompareTo
17	
18	[C#] public int CompareTo(object value);
19	[C++] public:sealed int CompareTo(Object* value);
20	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
21	Integer
22	[JScript] public function CompareTo(value : Object) : int;
23	
24	Description
25	

1 Compares this instance to a specified object and returns an indication of their relative values. 2 Return Value: A signed number indicating the relative values of this instance and 3 value. An Int16, regardless of its value, is considered greater than a null 5 reference. An object to compare, or null. 6 **Equals** 7 8 [C#] public override bool Equals(object obj); 9 [C++] public: bool Equals(Object* obj); 10 [VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean 11 [JScript] public override function Equals(obj : Object) : Boolean; 12 13 Description 14 Returns a value indicating whether this instance is equal to a specified 15 object. 16 Return Value: true if obj is an instance of Int16 and equals the value of this 17 instance; otherwise, false. An object to compare with this instance. 18 GetHashCode 19 20 [C#] public override int GetHashCode(); 21 [C++] public: int GetHashCode(); 22 [VB] Overrides Public Function GetHashCode() As Integer [JScript] public override function GetHashCode(): int; 24

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Description
Returns the hash code for this instance.
Return Value: A 32-bit signed integer hash code.
GetTypeCode
[C#] public TypeCode GetTypeCode();
[C++] public:sealed TypeCode GetTypeCode();
[VB] NotOverridable Public Function GetTypeCode() As TypeCode
[JScript] public function GetTypeCode(): TypeCode;
Description
Returns the TypeCode for value type Int16 .
Return Value: The enumerated constant, System.TypeCode.Int16.
Parse
[C#] public static short Parse(string s);
[C++] public: static short Parse(String* s);
[VB] Public Shared Function Parse(ByVal s As String) As Short
[JScript] public static function Parse(s : String) : Int16; Converts the String
representation of a number to its 16-bit signed integer equivalent.
Description

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Converts the **String** representation of a number to its 16-bit signed integer equivalent.

Return Value: A 16-bit signed integer equivalent to the number contained in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert.

Parse

[C#] public static short Parse(string s, IFormatProvider provider);

[C++] public: static short Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As Short

[JScript] public static function Parse(s : String, provider : IFormatProvider) :

Int16;

Description

Converts the **String** representation of a number in a specified culturespecific format to its 16-bit signed integer equivalent.

Return Value: A 16-bit signed integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

Parse

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[C#] public static short Parse(string s, NumberStyles style);

[C++] public: static short Parse(String* s, NumberStyles style);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles) As Short

[JScript] public static function Parse(s : String, style : NumberStyles) : Int16;

Description

Converts the **String** representation of a number in a specified style to its 16-bit signed integer equivalent.

Return Value: A 16-bit signed integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. The combination of one or more **System.Globalization.NumberStyles**constants that indicate the permitted format

System.Globalization.NumberStylesconstants that indicate the permitted format of *s*.

Parse

[C#] public static short Parse(string s, NumberStyles style, IFormatProvider provider);

[C++] public: static short Parse(String* s, NumberStyles style, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles, ByVal provider As IFormatProvider) As Short

[JScript] public static function Parse(s : String, style : NumberStyles, provider :

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IFormatProvider): Int16; Description Converts the String representation of a number in a specified style and culture-specific format to its 16-bit signed integer equivalent. Return Value: A 16-bit signed integer equivalent to the number specified in s. s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A System.String containing a number to convert. The combination of one or more culture-specific formatting information about s. IConvertible.ToBoolean Implements IConvertible.ToBoolean

System.Globalization.NumberStylesconstants that indicate the permitted format of s. An System.IFormatProvider interface implementation which supplies [C#] bool IConvertible.ToBoolean(IFormatProvider provider); [C++] bool IConvertible::ToBoolean(IFormatProvider* provider); [VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean [JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean; IConvertible.ToByte [C#] byte IConvertible.ToByte(IFormatProvider provider); [C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);

[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements

1	IConvertible.ToByte
2	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
3	IConvertible.ToChar
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5	[C#] char IConvertible.ToChar(IFormatProvider provider);
6	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
7	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
8	IConvertible.ToChar
9	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
10	IConvertible.ToDateTime
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12	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
13	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
14	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
15	Implements IConvertible.ToDateTime
16	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
17	DateTime;
18	IConvertible.ToDecimal
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20	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
21	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
22	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
23	Implements IConvertible.ToDecimal
24	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
25	IConvertible.ToDouble

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2	[C#] double IConvertible.ToDouble(IFormatProvider provider);
3	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
4	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
5	Implements IConvertible.ToDouble
6	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
7	IConvertible.ToInt16
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9	[C#] short IConvertible.ToInt16(IFormatProvider provider);
10	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
11	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
12	Implements IConvertible.ToInt16
13	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
14	IConvertible.ToInt32
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16	[C#] int IConvertible.ToInt32(IFormatProvider provider);
17	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
18	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
19	Implements IConvertible.ToInt32
20	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
21	IConvertible.ToInt64
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23	[C#] long IConvertible.ToInt64(IFormatProvider provider);
24	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
25	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implement
	• •

1	IConvertible.ToInt64
2	[JScript] function IConvertible.ToInt64(provider: IFormatProvider): long;
3	IConvertible.ToSByte
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5	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
6	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
7	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
8	Implements IConvertible.ToSByte
9	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
10	IConvertible.ToSingle
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12	[C#] float IConvertible.ToSingle(IFormatProvider provider);
13	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
14	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
15	Implements IConvertible.ToSingle
16	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
17	IConvertible.ToType
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19	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
20	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
21	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
22	As Object Implements IConvertible.ToType
23	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
24	Object;
25	IConvertible.ToUInt16

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2	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
3	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
4	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
5	Implements IConvertible.ToUInt16
6	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
7	IConvertible.ToUInt32
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9	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
10	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
11	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
12	Implements IConvertible.ToUInt32
13	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
14	IConvertible.ToUInt64
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16	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
17	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
18	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
19	Implements IConvertible.ToUInt64
20	[JScript] function IConvertible.ToUInt64(provider: IFormatProvider): UInt64;
21	ToString
22	
23	[C#] public override string ToString();
24	[C++] public: String* ToString();
25	[VB] Overrides Public Function ToString() As String

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[JScript] public override function ToString(): String; Converts the numeric value of this instance to its equivalent **String** representation.

Description

Converts the numeric value of this instance to its equivalent **String** representation.

Return Value: The **System.String** representation of the value of this instance, consisting of a minus sign if the value is negative, and a sequence of digits ranging from 0 to 9 with no leading zeroes.

The return value is formatted with the general format specifier ("G") and the System.Globalization.NumberFormatInfo for the current culture.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **System.String** representation of the value of this instance as specified by *provider*.

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This instance is formatted with the general format specifier ("G"). An System.IFormatProvider interface implementation which supplies culturespecific formatting information. **ToString**

[C#] public string ToString(string format);

[C++] public: String* ToString(String* format);

[VB] Public Function ToString(ByVal format As String) As String

[JScript] public function ToString(format : String) : String;

Description

Converts the numeric value of this instance to its equivalent String representation, using the specified format.

Return Value: The System.String representation of the value of this instance as specified by format.

If format is null or an empty string, the return value of this instance is formatted with the general format specifier ("G"). A format string.

ToString

[C#] public string ToString(string format, IFormatProvider provider);

[C++] public: __sealed String* ToString(String* format, IFormatProvider*

provider);

[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal provider As IFormatProvider) As String

[JScript] public function ToString(format : String, provider : IFormatProvider) :

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String;

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Description

Converts the numeric value of this instance to its equivalent String representation using the specified format and culture-specific format information. Return Value: The System.String representation of the value of this instance as specified by format and provider.

If format is null or an empty string, the return value for this instance is formatted with the general format specifier ("G"). A format specification. An System.IFormatProvider interface implementation which supplies culturespecific formatting information about this instance.

Int32 structure (System)

ToString

Description

Represents a 32-bit signed integer.

The Int32 value type represents signed integers with values ranging from negative 2,147,483,648 through positive 2,147,483,647.

ToString

[C#] public const int MaxValue;

[C++] public: const int MaxValue;

[VB] Public Const MaxValue As Integer

[JScript] public var MaxValue : int;

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2	Description
3	A constant representing the largest possible value of Int32.
4	The value of this constant is 2,147,483,647; that is, hexadecimal
5	0x7FFFFFF.
6	ToString
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8	[C#] public const int MinValue;
9	[C++] public: const int MinValue;
10	[VB] Public Const MinValue As Integer
11	[JScript] public var MinValue : int;
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13	Description
14	A constant representing the smallest possible value of Int32.
15	The value of this constant is -2,147,483,648; that is, hexadecimal
16	0x80000000.
17	CompareTo
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19	[C#] public int CompareTo(object value);
20	[C++] public:sealed int CompareTo(Object* value);
21	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
22	Integer
23	[JScript] public function CompareTo(value : Object) : int;
24	
25	Description

Compares this instance to a specified object and returns an indication of 1 their relative values. 2 Return Value: A signed number indicating the relative values of this instance and 3 value. 4 Any instance of Int32, regardless of its value, is considered greater than 5 null. An object to compare, or null. 6 **Equals** 7 8 [C#] public override bool Equals(object obj); 9 [C++] public: bool Equals(Object* obj); 10 [VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean 11 [JScript] public override function Equals(obj : Object) : Boolean; 12 13 Description 14 Returns a value indicating whether this instance is equal to a specified 15 object. 16 Return Value: true if obj is an instance of Int32 and equals the value of this 17 instance; otherwise, false. An object to compare with this instance. 18 GetHashCode 19 20 [C#] public override int GetHashCode(); 21 [C++] public: int GetHashCode(); 22 [VB] Overrides Public Function GetHashCode() As Integer 23 [JScript] public override function GetHashCode(): int; 24

Description
Returns the hash code for this instance.
Return Value: A 32-bit signed integer hash code.
GetTypeCode
[C#] public TypeCode GetTypeCode();
[C++] public:sealed TypeCode GetTypeCode();
[VB] NotOverridable Public Function GetTypeCode() As TypeCode
[JScript] public function GetTypeCode() : TypeCode;
Description
Returns the TypeCode for value type Int32 .
Return Value: The enumerated constant, System.TypeCode.Int32.
Parse
[C#] public static int Parse(string s);
[C++] public: static int Parse(String* s);
[VB] Public Shared Function Parse(ByVal s As String) As Integer
[JScript] public static function Parse(s : String) : int; Converts the String
representation of a number to its 32-bit signed integer equivalent.
Description

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Converts the String representation of a number to its 32-bit signed integer equivalent. Return Value: An 32-bit signed integer equivalent to the number contained in s. s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A System.String containing a number to convert. Parse [C#] public static int Parse(string s, IFormatProvider provider); [C++] public: static int Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As Integer

[JScript] public static function Parse(s : String, provider : IFormatProvider) : int;

Description

Converts the String representation of a number in a specified culturespecific format to its 32-bit signed integer equivalent.

Return Value: A 32-bit signed integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A System.String containing a number to convert. An System.IFormatProvider interface implementation which supplies culture-specific formatting information about s.

Parse

[C#] public static int Parse(string s, NumberStyles style);

1	[C++] public: static int Parse(String* s, NumberStyles style);
2	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
3	NumberStyles) As Integer
4	[JScript] public static function Parse(s : String, style : NumberStyles) : int;
5	
6	Description
7	Converts the String representation of a number in a specified style to its
8	32-bit signed integer equivalent.
9	Return Value: An 32-bit signed integer equivalent to the number specified in s .
10	s contains a number of the form: [ws][sign]digits[ws] Items in square
11	brackets ('[' and ']') are optional, and other items are as follows. A System.String
12	containing a number to convert. The combination of one or more
13	System.Globalization.NumberStylesconstants that indicate the permitted format
14	of s.
15	Parse
16	
17	[C#] public static int Parse(string s, NumberStyles style, IFormatProvider
18	provider);
19	[C++] public: static int Parse(String* s, NumberStyles style, IFormatProvider*
20	provider);
21	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
22	NumberStyles, ByVal provider As IFormatProvider) As Integer
23	[JScript] public static function Parse(s : String, style : NumberStyles, provider :
24	IFormatProvider): int;
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Description

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Converts the **String** representation of a number in a specified style and culture-specific format to its 32-bit signed integer equivalent.

Return Value: An 32-bit signed integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. The combination of one or more **System.Globalization.NumberStyles**constants that indicate the permitted format of s. An **System.IFormatProvider** interface implementation which supplies

IConvertible.ToBoolean

culture-specific formatting information about s.

[C#] bool IConvertible.ToBoolean(IFormatProvider provider);

[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);

[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean Implements IConvertible.ToBoolean

[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean; IConvertible.ToByte

[C#] byte IConvertible.ToByte(IFormatProvider provider);

[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);

[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements

IConvertible.ToByte

[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;

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IConvertible.ToChar

[C#] char IConvertible.ToChar(IFormatProvider provider);

[C++] __wchar_t IConvertible::ToChar(IFormatProvider* provider);

[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements

IConvertible.ToChar

[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;

IConvertible.ToDateTime

[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);

[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);

[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime

Implements IConvertible.ToDateTime

[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :

DateTime;

IConvertible.ToDecimal

[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);

[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);

[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal

Implements IConvertible.ToDecimal

 $[JScript]\ function\ IConvertible. To Decimal (provider: IFormat Provider): Decimal;$

IConvertible.ToDouble

[C#] double IConvertible.ToDouble(IFormatProvider provider);

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1	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
2	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
3	Implements IConvertible.ToDouble
4	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
5	IConvertible.ToInt16
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7	[C#] short IConvertible.ToInt16(IFormatProvider provider);
8	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
9	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
10	Implements IConvertible.ToInt16
11	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
12	IConvertible.ToInt32
13	
14	[C#] int IConvertible.ToInt32(IFormatProvider provider);
15	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
16	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
17	Implements IConvertible.ToInt32
18	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
19	IConvertible.ToInt64
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21	[C#] long IConvertible.ToInt64(IFormatProvider provider);
22	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
23	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
24	IConvertible.ToInt64
25	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;

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IConvertible.ToSByte

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[C++] char IConvertible::ToSByte(IFormatProvider* provider);

[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte

Implements IConvertible.ToSByte

[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;

IConvertible.ToSingle

[C#] float IConvertible.ToSingle(IFormatProvider provider);

[C++] float IConvertible::ToSingle(IFormatProvider* provider);

[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single

Implements IConvertible.ToSingle

[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;

IConvertible.ToType

[C#] object IConvertible.ToType(Type type, IFormatProvider provider);

[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);

[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)

As Object Implements IConvertible.ToType

 $[JScript]\ function\ IConvertible. To Type (type: Type, provider: IFormat Provider):$

Object;

IConvertible.ToUInt16

[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);

1	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
2	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
3	Implements IConvertible.ToUInt16
4	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
5	IConvertible.ToUInt32
6	
7	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
8	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
9	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
10	Implements IConvertible.ToUInt32
11	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
12	IConvertible.ToUInt64
13	
14	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
15	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
16	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
17	Implements IConvertible.ToUInt64
18	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
19	ToString
20	
21	[C#] public override string ToString();
22	[C++] public: String* ToString();
23	[VB] Overrides Public Function ToString() As String
24	[JScript] public override function ToString(): String; Converts the numeric value
25	of this instance to its equivalent String representation.

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Converts the numeric value of this instance to its equivalent **String** representation.

Return Value: The **System.String** representation of the value of this instance, consisting of a negative sign if the value is negative, and a sequence of digits ranging from 0 to 9 with no leading zeroes.

The return value is formatted with the general format specifier ("G") and the System.Globalization.NumberFormatInfo for the current culture.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **System.String** representation of the value of this instance as specified by *provider*.

This instance is formatted with the general format specifier ("G"). An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information.

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Description

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2 [C#] public string ToString(string format); 3 [C++] public: String* ToString(String* format); [VB] Public Function ToString(ByVal format As String) As String 5 [JScript] public function ToString(format : String) : String; 7 Description 8 Converts the numeric value of this instance to its equivalent String representation, using the specified format. 10 Return Value: The System.String representation of the value of this instance as 11 specified by format. 12 If format is null or an empty string (""), the return value of this instance is 13 formatted with the general format specifier ("G"). A format string. 14 **ToString** 15 16 [C#] public string ToString(string format, IFormatProvider provider); 17 [C++] public: __sealed String* ToString(String* format, IFormatProvider* 18 provider); 19 [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal 20 provider As IFormatProvider) As String 21 [JScript] public function ToString(format : String, provider : IFormatProvider) : 22 String; 23

ToString

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Converts the numeric value of this instance to its equivalent String representation using the specified format and culture-specific format information. Return Value: The System.String representation of the value of this instance as specified by format and provider. If format is null or an empty string (""), the return value for this instance is formatted with the general format specifier ("G"). A format specification. An System.IFormatProvider interface implementation which supplies culturespecific formatting information.

Int64 structure (System)

ToString

Description

Represents a 64-bit signed integer.

The Int64 value type represents integers with values ranging from negative 9,223,372,036,854,775,808 through positive 9,223,372,036,854,775,807.

ToString

[C#] public const long MaxValue;

[C++] public: const __int64 MaxValue;

[VB] Public Const MaxValue As Long

[JScript] public var MaxValue : long;

Description

A constant representing the largest possible value of Int64.

The value of this constant is 9,223,372,036,854,775,807; that is, 1 hexadecimal 0x7FFFFFFFFFFFFF. 2 **ToString** 3 [C#] public const long MinValue; 5 [C++] public: const __int64 MinValue; 6 [VB] Public Const MinValue As Long 7 [JScript] public var MinValue : long; 8 9 Description 10 A constant representing the smallest possible value of Int64. 11 The value of this constant is negative 9,223,372,036,854,775,808; that is, 12 13 CompareTo 14 15 [C#] public int CompareTo(object value); 16 [C++] public: __sealed int CompareTo(Object* value); 17 [VB] NotOverridable Public Function CompareTo(ByVal value As Object) As 18 Integer 19 [JScript] public function CompareTo(value : Object) : int; 21 Description 22 Compares this instance to a specified object and returns an indication of 23 their relative values. 24 25

Return Value: A signed number indicating the relative values of this instance and value. 2 An Int64, regardless of its value, is considered greater than a null 3 reference. An object to compare, or null. **Equals** 5 6 [C#] public override bool Equals(object obj); 7 [C++] public: bool Equals(Object* obj); 8 [VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean 9 [JScript] public override function Equals(obj : Object) : Boolean; 10 11 Description 12 Returns a value indicating whether this instance is equal to a specified 13 object. 14 Return Value: true if obj is an instance of Int64 and equals the value of this 15 instance; otherwise, false. An object to compare with this instance. 16 GetHashCode 17 18 [C#] public override int GetHashCode(); 19 [C++] public: int GetHashCode(); 20 [VB] Overrides Public Function GetHashCode() As Integer 21 [JScript] public override function GetHashCode(): int; 22 23 Description 24 25

1	Returns the hash code for this instance.
2	Return Value: A 32-bit signed integer hash code.
3	GetTypeCode
4	
5	[C#] public TypeCode GetTypeCode();
6	[C++] public:sealed TypeCode GetTypeCode();
7	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
8	[JScript] public function GetTypeCode() : TypeCode;
9	
10	Description
11	Returns the TypeCode for value type Int64 .
12	Return Value: The enumerated constant, System.TypeCode.Int64.
13	Parse
14	
15	[C#] public static long Parse(string s);
16	[C++] public: staticint64 Parse(String* s);
17	[VB] Public Shared Function Parse(ByVal s As String) As Long
18	[JScript] public static function Parse(s : String) : long; Converts the String
19	representation of a number to its 64-bit signed integer equivalent.
20	
21	Description
22	Converts the String representation of a number to its 64-bit signed integer
23	equivalent.
24	Return Value: A 64-bit signed integer equivalent to the number contained in s.
25	

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s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert.

Parse

[C#] public static long Parse(string s, IFormatProvider provider);

[C++] public: static __int64 Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As Long

[JScript] public static function Parse(s : String, provider : IFormatProvider) : long;

Description

Converts the **String** representation of a number in a specified culturespecific format to its 64-bit signed integer equivalent.

Return Value: A 64-bit signed integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

Parse

[C#] public static long Parse(string s, NumberStyles style);

[C++] public: static __int64 Parse(String* s, NumberStyles style);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles) As Long

1	[JScript] public static function Parse(s : String, style : NumberStyles) : long;
2	
3	Description
4	Converts the String representation of a number in a specified style to its
5	64-bit signed integer equivalent.
6	Return Value: A 64-bit signed integer equivalent to the number specified in s .
7	s contains a number of the form: [ws][sign]digits[ws] Items in square
8	brackets ('[' and ']') are optional, and other items are as follows. A System.String
9	containing a number to convert. The combination of one or more
10	System.Globalization.NumberStylesconstants that indicate the permitted format
11	of s.
12	Parse
13	
14	[C#] public static long Parse(string s, NumberStyles style, IFormatProvider
15	provider);
16	[C++] public: staticint64 Parse(String* s, NumberStyles style,
17	IFormatProvider* provider);
18	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
19	NumberStyles, ByVal provider As IFormatProvider) As Long
20	[JScript] public static function Parse(s : String, style : NumberStyles, provider :
21	IFormatProvider): long;
22	
23	Description
24	
25	

	Converts the String representation of a number in a specified style and
2	culture-specific format to its 64-bit signed integer equivalent.
3	Return Value: A 64-bit signed integer equivalent to the number specified in s.
4	s contains a number of the form: [ws][sign]digits[ws] Items in square
5	brackets ('[' and ']') are optional, and other items are as follows. A System.String
6	containing a number to convert. The combination of one or more
7	System.Globalization.NumberStylesconstants that indicate the permitted format
8	of s. An System.IFormatProvider interface implementation which supplies
9	culture-specific formatting information about s.
10	IConvertible.ToBoolean
11	
12	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
13	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
14	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
15	Implements IConvertible.ToBoolean
16	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
17	IConvertible.ToByte
18	
19	[C#] byte IConvertible.ToByte(IFormatProvider provider);
20	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
21	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
22	IConvertible.ToByte
23	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
24	IConvertible.ToChar
25	
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2	[C#] char IConvertible.ToChar(IFormatProvider provider);
3	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
4	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
5	IConvertible.ToChar
6	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
7	IConvertible.ToDateTime
8	
9	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
10	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
11	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
12	Implements IConvertible.ToDateTime
13	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
14	DateTime;
15	IConvertible.ToDecimal
16	
17	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
18	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
19	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
20	Implements IConvertible.ToDecimal
21	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
22	IConvertible.ToDouble
23	
24	[C#] double IConvertible.ToDouble(IFormatProvider provider);
25	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
	••

1	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
2	Implements IConvertible.ToDouble
3	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
4	IConvertible.ToInt16
5	
6	[C#] short IConvertible.ToInt16(IFormatProvider provider);
7	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
8	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
9	Implements IConvertible.ToInt16
10	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
11	IConvertible.ToInt32
12	
13	[C#] int IConvertible.ToInt32(IFormatProvider provider);
14	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
15	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
16	Implements IConvertible.ToInt32
17	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
18	IConvertible.ToInt64
19	
20	[C#] long IConvertible.ToInt64(IFormatProvider provider);
21	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
22	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
23	IConvertible.ToInt64
24	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
25	IConvertible.ToSByte

1	
2	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
3	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
4	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
5	Implements IConvertible.ToSByte
6	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
7	IConvertible.ToSingle
8	
9	[C#] float IConvertible.ToSingle(IFormatProvider provider);
10	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
11	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
12	Implements IConvertible.ToSingle
13	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
14	IConvertible.ToType
15	
16	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
17	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
18	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
19	As Object Implements IConvertible.ToType
20	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
21	Object;
22	IConvertible.ToUInt16
23	
24	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
25	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);

1	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
2	Implements IConvertible.ToUInt16
3	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
4	IConvertible.ToUInt32
5	
6	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
7	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
8	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
9	Implements IConvertible.ToUInt32
10	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
11	IConvertible.ToUInt64
12	
13	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
14	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
15	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
16	Implements IConvertible.ToUInt64
17	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
18	ToString
19	
20	[C#] public override string ToString();
21	[C++] public: String* ToString();
22	[VB] Overrides Public Function ToString() As String
23	[JScript] public override function ToString(): String; Converts the numeric value
24	of this instance to its equivalent String representation.
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Converts the numeric value of this instance to its equivalent **String** representation.

Return Value: The **System.String** representation of the value of this instance, consisting of a minus sign if the value is negative, and a sequence of digits ranging from 0 to 9 with no leading zeroes.

The return value is formatted with the general format specifier ("G") and the System.Globalization.NumberFormatInfo for the current culture.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **System.String** representation of the value of this instance as specified by *provider*.

This instance is formatted with the general format specifier ("G"). An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information.

ToString	

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[C#] public string ToString(string format);

[C++] public: String* ToString(String* format);

[VB] Public Function ToString(ByVal format As String) As String

[JScript] public function ToString(format : String) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation, using the specified format.

Return Value: The **System.String** representation of the value of this instance as specified by *format*.

If format is **null** or an empty string (""), the return value of this instance is formatted with the general format specifier ("G"). A format string.

ToString

[C#] public string ToString(string format, IFormatProvider provider);

[C++] public: __sealed String* ToString(String* format, IFormatProvider*

[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal provider As IFormatProvider) As String

[JScript] public function ToString(format : String, provider : IFormatProvider) : String;

Description

provider);

Converts the numeric value of this instance to its equivalent **String** representation using the specified format and culture-specific format information. *Return Value:* The **System.String** representation of the value of this instance as specified by *format* and *provider*.

If format is **null** or an empty string (""), the return value for this instance is formatted with the general format specifier ("G"). A format specification. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about this instance.

IntPtr structure (System)

ToString

Description

A platform-specific type that is used to represent a pointer or a handle.

The **System.IntPtr** type is designed to be a platform-specific, machine-sized integer. That is, an instance of this type is expected to be 32-bits on 32-bit hardware and operating systems, and 64-bits on 64-bit hardware and operating systems.

ToString

[C#] public static readonly IntPtr Zero;

[C++] public: static IntPtr Zero;

[VB] Public Shared ReadOnly Zero As IntPtr

[JScript] public static var Zero : IntPtr;

1	
2	Description
3	A read-only field that represents an uninitialized pointer or handle.
4	The value of this field is not equivalent to null, but is instead a pointer
5	which has not been assigned any value whatsoever. Use this field to efficiently
6	determine whether an instance of IntPtr has been set.
7	IntPtr
8	Example Syntax:
9	ToString
10	
11	[C#] public IntPtr(int value);
12	[C++] public: IntPtr(int value);
13	[VB] Public Sub New(ByVal value As Integer)
14	[JScript] public function IntPtr(value : int); Initializes a new instance of the
15	System.IntPtr structure.
16	
17	Description
18	Initializes a new instance of the System.IntPtr structure to the specified
19	32-bit pointer or handle. A pointer or handle contained in a 32-bit signed integer
20	IntPtr
21	Example Syntax:
22	ToString
23	
24	[C#] public IntPtr(long value);
25	[C++] public: IntPtr(int64 value);

```
[VB] Public Sub New(ByVal value As Long)
    [JScript] public function IntPtr(value : long);
2
3
    Description
           Initializes a new instance of the System.IntPtr structure to the specified
5
    64-bit pointer.
6
           An exception is only thrown if the value of value requires more bits than
7
    the current platform supports. A pointer or handle contained in a 64-bit signed
8
    integer.
9
           IntPtr
10
           Example Syntax:
11
            ToString
12
13
    [C#] unsafe public IntPtr(void* value);
14
    [C++] public: IntPtr(void* value);
15
            Size
16
            ToString
17
18
     [C#] public static int Size {get;}
19
     [C++] public: __property static int get_Size();
20
     [VB] Public Shared ReadOnly Property Size As Integer
21
     [JScript] public static function get Size(): int;
22
23
     Description
24
            Gets the size of this instance.
25
```

1	Equals
2	
3	[C#] public override bool Equals(object obj);
4	[C++] public: bool Equals(Object* obj);
5	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
6	[JScript] public override function Equals(obj : Object) : Boolean;
7	
8	Description
9	Returns a value indicating whether this instance is equal to a specified
10	object.
11	Return Value: true if obj is an instance of IntPtr and equals the value of this
12	instance; otherwise, false. An object to compare with this instance or null.
13	GetHashCode
14	
15	[C#] public override int GetHashCode();
16	[C++] public: int GetHashCode();
17	[VB] Overrides Public Function GetHashCode() As Integer
18	[JScript] public override function GetHashCode(): int;
19	
20	Description
21	Returns the hash code for this instance.
22	Return Value: A 32-bit signed integer hash code.
23	op_Equality
24	
25	[C#] public static bool operator ==(IntPtr value1, IntPtr value2);

```
[C++] public: static bool op_Equality(IntPtr value1, IntPtr value2);
    [VB] returnValue = IntPtr.op Equality(value1, value2)
2
    [JScript] returnValue = value1 == value2;
3
4
    Description
5
           Determines whether two specified instances of System.IntPtr are equal.
6
    Return Value: true if value1 equals value2; otherwise, false. An IntPtr. An
7
    IntPtr.
8
           op Explicit
9
10
    [C#] public static explicit operator IntPtr(int value);
11
    [C++] public: static IntPtr op Explicit(int value);
12
    [VB] returnValue = IntPtr.op_Explicit(value)
13
    [JScript] returnValue = IntPtr(value);
14
15
    Description
16
            Converts the value of a 32-bit signed integer to an System.IntPtr .
17
     Return Value: A new instance of System.IntPtr initialized to value. A 32-bit
18
     signed integer.
19
            op Explicit
20
21
     [C#] public static explicit operator IntPtr(long value);
22
     [C++] public: static IntPtr op_Explicit(__int64 value);
     [VB] returnValue = IntPtr.op Explicit(value)
24
     [JScript] returnValue = IntPtr(value);
25
```

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Converts the value of a 64-bit signed integer to an **System.IntPtr**.

Return Value: A new instance of **System.IntPtr** initialized to value. A 64-bit signed integer.

op Explicit

[C#] public static explicit operator int(IntPtr value);

[C++] public: static int op_Explicit();

[VB] returnValue = IntPtr.op_Explicit(value)

[JScript] returnValue = Int32(value);

Description

Converts the value of the specified **System.IntPtr** instance to a 32-bit signed integer.

An exception is only thrown if the value of *value* requires more bits than the current platform supports. An **IntPtr**.

op Explicit

[C#] unsafe public static explicit operator void*(IntPtr value);

[C++] public: static void* op_Explicit();

op_Explicit

[C#] public static explicit operator long(IntPtr value);

[C++] public: static __int64 op_Explicit();

[VB] returnValue = IntPtr.op_Explicit(value)
[JScript] returnValue = Int64(value);
Description
Converts the value of the specified System.IntPtr instance to a 64-bit
signed integer. An IntPtr.
op_Explicit
[C#] unsafe public static explicit operator IntPtr(void* value);
[C++] public: static IntPtr op_Explicit(void* value);
op_Inequality
[C#] public static bool operator !=(IntPtr value1, IntPtr value2);
[C++] public: static bool op_Inequality(IntPtr value1, IntPtr value2);
[VB] returnValue = IntPtr.op_Inequality(value1, value2)
[JScript] returnValue = value1 != value2;
Description
Determines whether two specified instances of System.IntPtr are not
equal.
Return Value: true if value1 does not equal value2; otherwise, false. An IntPti
An IntPtr.
ISerializable.GetObjectData
[C#] void ISerializable.GetObjectData(SerializationInfo info, StreamingContext

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1	context);
2	[C++] void ISerializable::GetObjectData(SerializationInfo* info,
3	StreamingContext context);
4	[VB] Sub GetObjectData(ByVal info As SerializationInfo, ByVal context As
5	StreamingContext) Implements ISerializable.GetObjectData
6	[JScript] function ISerializable.GetObjectData(info: SerializationInfo, context:
7	StreamingContext);
8	ToInt32
9	
10	[C#] public int ToInt32();
11	[C++] public: int ToInt32();
12	[VB] Public Function ToInt32() As Integer
13	[JScript] public function ToInt32(): int;
14	
15	Description
16	Converts the value of this instance to a 32-bit signed integer.
17	Return Value: A 32-bit signed integer.
18	An exception is only thrown if the value of value requires more bits than
19	the current platform supports.
20	ToInt64
21	
22	[C#] public long ToInt64();
23	[C++] public:int64 ToInt64();
24	[VB] Public Function ToInt64() As Long
25	[JScript] public function ToInt64(): long;

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1	
2	Description
3	Converts the value of this instance to a 64-bit signed integer.
4	Return Value: A a 64-bit signed integer.
5	ToPointer
6	
7	[C#] unsafe public void* ToPointer();
8	[C++] public: void* ToPointer();
9	
10	Description
11	Converts the value of this instance to a pointer to an unspecified type.
12	Return Value: A pointer to System. Void; that is, a pointer to memory containing
13	data of an unspecified type.
14	ToString
15	
16	[C#] public override string ToString();
17	[C++] public: String* ToString();
18	[VB] Overrides Public Function ToString() As String
19	[JScript] public override function ToString() : String;
20	
21	Description
22	Converts the numeric value of this instance to its equivalent String
23	representation.
24	Return Value: The System.String representation of the value of this instance.
25	InvalidCastException class (System)
	••

1	ToString
2	
3	
4	Description
5	The exception that is thrown for invalid casting or explicit conversion.
6	System.InvalidCastException is thrown if: For a conversion from a
7	System.Single or a System.Double to a System.Decimal, the source value is
8	infinity, Not-a-Number (NaN), or too large to be represented as the destination
9	type.
10	InvalidCastException
11	Example Syntax:
12	ToString
13	
14	[C#] public InvalidCastException();
15	[C++] public: InvalidCastException();
16	[VB] Public Sub New()
17	[JScript] public function InvalidCastException(); Initializes a new instance of the
18	System.InvalidCastException class.
19	
20	Description
21	Initializes a new instance of the System.InvalidCastException class with
22	default properties.
23	The following table shows the initial property values for an instance of
24	System.InvalidCastException .
25	InvalidCastException

1	Example Syntax:
2	ToString
3	
4	[C#] public InvalidCastException(string message);
5	[C++] public: InvalidCastException(String* message);
6	[VB] Public Sub New(ByVal message As String)
7	[JScript] public function InvalidCastException(message : String);
8	
9	Description
10	Initializes a new instance of the System.InvalidCastException class with a
11	specified error message.
12	The following table shows the initial property values for an instance of
13	System.InvalidCastException. The error message that explains the reason for
14	the exception.
15	InvalidCastException
16	Example Syntax:
17	ToString
18	
19	[C#] protected InvalidCastException(SerializationInfo info, StreamingContext
20	context);
21	[C++] protected: InvalidCastException(SerializationInfo* info, StreamingContext
22	context);
23	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
24	StreamingContext)
25	[IScript] protected function InvalidCastException(info: SerializationInfo, context

: StreamingContext);

Description

Initializes a new instance of the **System.InvalidCastException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

InvalidCastException

Example Syntax:

ToString

[C#] public InvalidCastException(string message, Exception innerException);

[C++] public: InvalidCastException(String* message, Exception*

innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As

Exception)

 $[JScript]\ public\ function\ Invalid Cast Exception (message: String, inner Exception: String)]$

Exception);

Description

25

Initializes a new instance of the **System.InvalidCastException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

1

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When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If innerException is non-null, then the current Exception is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

InvalidOperationException class (System)

ToString

Description

The exception that is thrown when a method call is invalid for the object's current state.

System.InvalidOperationException is used in cases when the failure to invoke a method is caused by reasons other than invalid arguments. For example, System.InvalidOperationException is thrown by:

1	System.Collections.IEnumerator.MoveNext if objects of a collection are
2	modified after the enumerator is created.
3	InvalidOperationException
4	Example Syntax:
5	ToString
6	
7	[C#] public InvalidOperationException();
8	[C++] public: InvalidOperationException();
9	[VB] Public Sub New()
10	[JScript] public function InvalidOperationException(); Initializes a new instance
11	of the System.InvalidOperationException class.
12	
13	Description
14	Initializes a new instance of the System.InvalidOperationException class
15	with default properties.
16	The following table shows the initial property values for an instance of
17	System.InvalidOperationException .
18	InvalidOperationException
19	Example Syntax:
20	ToString
21	
22	[C#] public InvalidOperationException(string message);
23	[C++] public: InvalidOperationException(String* message);
24	[VB] Public Sub New(ByVal message As String)
25	[JScript] public function InvalidOperationException(message : String);

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Initializes a new instance of the **System.InvalidOperationException** class with a specified error message.

The following table shows the initial property values for an instance of **System.InvalidOperationException**. The error message that explains the reason for the exception.

InvalidOperationException

Example Syntax:

ToString

[C#] protected InvalidOperationException(SerializationInfo info,

StreamingContext context);

[C++] protected: InvalidOperationException(SerializationInfo* info,

StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As

StreamingContext)

[JScript] protected function InvalidOperationException(info: SerializationInfo,

context: StreamingContext);

Description

Initializes a new instance of the **System.InvalidOperationException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object

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that holds the serialized object data. The contextual information about the source or destination.

InvalidOperationException

Example Syntax:

ToString

[C#] public InvalidOperationException(string message, Exception innerException);

[C++] public: InvalidOperationException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function InvalidOperationException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.InvalidOperationException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception**X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If

11	
1	innerException is non-null, then the current Exception is raised in a catch block
2	handling innerException.
3	HelpLink
4	HResult
5	InnerException
6	Message
7	Source
8	StackTrace
9	TargetSite
10	InvalidProgramException class (System)
11	ToString
12	
13	
14	Description
15	The exception that is thrown when a program contains an invalid IL or
16	metadata. Generally this indicates a bug in a compiler.
17	System.InvalidProgramException uses the HRESULT
18	COR_E_INVALIDPROGRAM, which has the value 0x8013153A.
19	InvalidProgramException
20	Example Syntax:
21	ToString
22	
23	[C#] public InvalidProgramException();
24	[C++] public: InvalidProgramException();
25	[VB] Public Sub New()

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Example Syntax:

[JScript] public function InvalidProgramException(); Initializes a new instance of the System.InvalidProgramException class. Description Initializes a new instance of the System.InvalidProgramException class with default properties. The following table shows the initial property values for an instance of System.InvalidProgramException. InvalidProgramException Example Syntax: **ToString** [C#] public InvalidProgramException(string message); [C++] public: InvalidProgramException(String* message); [VB] Public Sub New(ByVal message As String) [JScript] public function InvalidProgramException(message : String); Description Initializes a new instance of the System.InvalidProgramException class with a specified error message. The following table shows the initial property values for an instance of System.InvalidProgramException . The error message that explains the reason for the exception. InvalidProgramException

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ToString

[C#] public InvalidProgramException(string message, Exception inner);
[C++] public: InvalidProgramException(String* message, Exception* inner);
[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
[JScript] public function InvalidProgramException(message: String, inner: Exception);

Description

Initializes a new instance of the **System.InvalidProgramException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the $\mathbf{System.Exception.InnerException}$ property of X should contain a reference to Y. The $\mathbf{InnerException}$ property returns the same value as was passed into the constructor, or \mathbf{null} if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of $\mathbf{System.Exception}$ that is the cause of the current $\mathbf{Exception}$. If inner is non-null, then the current $\mathbf{Exception}$ is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

Source

StackTrace

1	TargetSite
2	IServiceProvider interface (System)
3	ToString
4	
5	
6	Description
7	Defines a mechanism for retrieving a "service" object; that is, an object
8	which provides custom support to other objects.
9	This interface is implemented by a class or value type which provides a
10	service to other objects.
11	GetService
12	
13	[C#] object GetService(Type serviceType);
14	[C++] Object* GetService(Type* serviceType);
15	[VB] Function GetService(ByVal serviceType As Type) As Object
16	[JScript] function GetService(serviceType : Type) : Object;
17	
18	Description
19	Gets the service object of the specified type.
20	Return Value: A service object of type serviceType -or- null if there is no service
21	object of type service Type. An object that specifies the type of service object to
22	get.
23	LoaderOptimization enumeration (System)
24	GetService
25	

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An enumeration used with the **System.LoaderOptimizationAttribute** class to specify loader optimizations for an executable.

GetService

[C#] public const LoaderOptimization MultiDomain;

[C++] public: const LoaderOptimization MultiDomain;

[VB] Public Const MultiDomain As LoaderOptimization

[JScript] public var MultiDomain: LoaderOptimization;

Description

Indicates that the application will probably have many domains which use the same code, and the loader should share maximal internal resources across application domains.

GetService

[C#] public const LoaderOptimization MultiDomainHost;

[C++] public: const LoaderOptimization MultiDomainHost;

[VB] Public Const MultiDomainHost As LoaderOptimization

[JScript] public var MultiDomainHost : LoaderOptimization;

Description

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Indicates that the application will probably host unique code in multiple domains, and the loader should share resources across application domains for globally available (strong named) assemblies only.

GetService

[C#] public const LoaderOptimization NotSpecified;

[C++] public: const LoaderOptimization NotSpecified;

[VB] Public Const NotSpecified As LoaderOptimization

[JScript] public var NotSpecified : LoaderOptimization;

Description

Indicates no optimizations for sharing internal resources are specified. If the default domain or hosting interface specified an optimization then the loader uses that; otherwise, the loader uses **System.LoaderOptimization.SingleDomain**.

GetService

[C#] public const LoaderOptimization SingleDomain;

[C++] public: const LoaderOptimization SingleDomain;

[VB] Public Const SingleDomain As LoaderOptimization

[JScript] public var SingleDomain: LoaderOptimization;

Description

Indicates that the application will probably have a single domain, and loader should not share internal resources across application domains.

LoaderOptimizationAttribute class (System)

1	ToString
2	
3	
4	Description
5	Used to set the default loader optimization policy for the process. Should
6	only be set on the main method for an application. It is ignored on all other
7	methods.
8	The loader can make optimizations to share internal resource across
9	application domains, at a slight expense in static access speed. This attribute tells
10	the loader what type of application to optimize for - SingleDomain,
11	MultiDomain (each domain running the same classes), or MultiDomainHost
12	(multiple domains that can run different classes).
13	LoaderOptimizationAttribute
14	Example Syntax:
15	ToString
16	
17	[C#] public LoaderOptimizationAttribute(byte value);
18	[C++] public: LoaderOptimizationAttribute(unsigned char value);
19	[VB] Public Sub New(ByVal value As Byte)
20	[JScript] public function LoaderOptimizationAttribute(value : Byte); Initializes a
21	new instance of the System.LoaderOptimizationAttribute class.
22	
23	Description

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1	Initializes a new instance of the System.LoaderOptimizationAttribute
2	class to the specified value. A value equivalent to a System.LoaderOptimization
3	constant.
4	LoaderOptimizationAttribute
5	Example Syntax:
6	ToString
7	
8	[C#] public LoaderOptimizationAttribute(LoaderOptimization value);
9	[C++] public: LoaderOptimizationAttribute(LoaderOptimization value);
10	[VB] Public Sub New(ByVal value As LoaderOptimization)
11	[JScript] public function LoaderOptimizationAttribute(value :
12	LoaderOptimization);
13	
14	Description
15	Initializes a new instance of the System.LoaderOptimizationAttribute
16	class to the specified value. A System.LoaderOptimization constant.
17	TypeId
18	Value
19	ToString
20	
21	
22	Description
23	Gets the current System.LoaderOptimization value for this instance.
24	LocalDataStoreSlot class (System)
25	ToString

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Encapsulates a memory slot to store local data. This class cannot be inherited.

Threads and contexts use a local store memory mechanism to store thread-specific and context-specific data, respectively. The common language runtime allocates a multi-slot data store array to each process when it is created. The thread or context calls various functions to allocate a data slot in the data store, to store and retrieve a data value in the slot, and to free a data slot for reuse after the thread or context object expires.

Finalize

[C#] ~LocalDataStoreSlot();

[C++] ~LocalDataStoreSlot();

[VB] Overrides Protected Sub Finalize()

[JScript] protected override function Finalize();

Description

Releases the memory slot reserved by an object when the object no longer exists.

System.LocalDataStoreSlot.Finalize locks the data store manager before marking the data slot as unoccupied.

MarshalByRefObject class (System)

ToString

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1	
2	
3	Description
4	Base class for Remoting objects that need to be marshal by reference. This
5	includes WellKnown SingleCall and WellKnown Singleton WebService objects
6	and Client Activated Objects.
7	Some key points to classes that derived from MarshalByRefObject: *
8	Derive from System.MarshalByRefObject or any of its children (except from
9	context bound objects which derive from System.ContextBoundObject).
10	MarshalByRefObject
11	Example Syntax:
12	ToString
13	
14	[C#] protected MarshalByRefObject();
15	[C++] protected: MarshalByRefObject();
16	[VB] Protected Sub New()
17	[JScript] protected function MarshalByRefObject();
18	CreateObjRef
19	
20	[C#] public virtual ObjRef CreateObjRef(Type requestedType);
21	[C++] public: virtual ObjRef* CreateObjRef(Type* requestedType);
22	[VB] Overridable Public Function CreateObjRef(ByVal requestedType As Type
23	As ObjRef
24	[JScript] public function CreateObjRef(requestedType : Type) : ObjRef;
25	GetLifetimeService

1	
2	[C#] public object GetLifetimeService();
3	[C++] public:sealed Object* GetLifetimeService();
4	[VB] NotOverridable Public Function GetLifetimeService() As Object
5	[JScript] public function GetLifetimeService() : Object;
6	
7	Description
8	Retrieves a lifetime service object that controls the lifetime policy for this
9	instance. For the default Lifetime service this will be an object of type ILease.
10	Return Value: Returns Object to control lifetime Service.
11	InitializeLifetimeService
12	
13	[C#] public virtual object InitializeLifetimeService();
14	[C++] public: virtual Object* InitializeLifetimeService();
15	[VB] Overridable Public Function InitializeLifetimeService() As Object
16	[JScript] public function InitializeLifetimeService(): Object;
17	
18	Description
19	Objects can provide their own lease and so control their own lifetime. They
20	do this by overriding the InitializeLifetimeService method provided on
21	MarshalByRefObject .
22	Math class (System)
23	ToString
24	
25	

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3	Description
4	Provides constants and static methods for trigonometric, logarithmic, and
5	other common mathematical functions.
6	ToString
7	
8	[C#] public const double E;
9	[C++] public: const double E;
10	[VB] Public Const E As Double
11	[JScript] public var E : double;
12	
13	Description
14	A constant, e , that specifies the natural logarithmic base.
15	The value of this field is 2.7182818284590452354.
16	ToString
17	
18	[C#] public const double PI;
19	[C++] public: const double PI;
20	[VB] Public Const PI As Double
21	[JScript] public var PI : double;
22	
23	Description
24	A constant, (pi), that specifies the ratio of the circumference of a circle to
25	its diameter.
	••

1	The value of this field is 3.14159265358979323846.
2	Abs
3	
4	[C#] public static decimal Abs(decimal value);
5	[C++] public: static Decimal Abs(Decimal value);
6	[VB] Public Shared Function Abs(ByVal value As Decimal) As Decimal
7	[JScript] public static function Abs(value : Decimal) : Decimal;
8	
9	Description
10	Returns the absolute value of a Decimal number.
11	Return Value: A Decimal, x, such that 0 (<=) x (<=) System.Decimal.MaxValue
12	. A number in the range System.Decimal.MinValue (<=) value (<=)
13	System.Decimal.MaxValue.
14	Abs
15	
16	[C#] public static double Abs(double value);
17	[C++] public: static double Abs(double value);
18	[VB] Public Shared Function Abs(ByVal value As Double) As Double
19	[JScript] public static function Abs(value : double) : double;
20	
21	Description
22	Returns the absolute value of a double-precision floating point number.
23	Return Value: A double-precision floating point number, x, such that 0 (<=) x (<=)
24	System.Double.MaxValue . A number in the range System.Double.MinValue <
25	value (<=) System.Double.MaxValue.

1	Abs
2	
3	[C#] public static short Abs(short value);
4	[C++] public: static short Abs(short value);
5	[VB] Public Shared Function Abs(ByVal value As Short) As Short
6	[JScript] public static function Abs(value: Int16): Int16;
7	
8	Description
9	Returns the absolute value of a 16-bit signed integer.
10	Return Value: A 16-bit signed integer, x, such that 0 (<=) x (<=)
11	System.Int16.MaxValue. A number in the range System.Int16.MinValue <
12	value (<=) System.Int16.MaxValue.
13	Abs
14	
15	[C#] public static int Abs(int value);
16	[C++] public: static int Abs(int value);
17	[VB] Public Shared Function Abs(ByVal value As Integer) As Integer
18	[JScript] public static function Abs(value : int) : int;
19	
20	Description
21	Returns the absolute value of a 32-bit signed integer.
22	Return Value: A 32-bit signed integer, x, such that 0 (<=) x (<=)
23	System.Int32.MaxValue . A number in the range System.Int32.MinValue <
24	value (<=) System.Int32.MaxValue.
25	Abs

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[C#] public static long Abs(long value);
[C++] public: staticint64 Abs(int64 value);
[VB] Public Shared Function Abs(ByVal value As Long) As Long
[JScript] public static function Abs(value : long) : long;
Description
Returns the absolute value of a 64-bit signed integer.
Return Value: A 64-bit signed integer, x, such that 0 (<=) x (<=)
System.Int64.MaxValue . A number in the range System.Int64.MinValue <
value (<=) System.Int64.MaxValue.
Abs
[C#] public static sbyte Abs(sbyte value);
[C++] public: static char Abs(char value);
[VB] Public Shared Function Abs(ByVal value As SByte) As SByte
[JScript] public static function Abs(value : SByte) : SByte; Returns the absolute
value of a specified number.
Description
Returns the absolute value of an 8-bit signed integer.
Return Value: An 8-bit signed integer, x, such that 0 (<=) x (<=)
System.SByte.MaxValue. A number in the range System.SByte.MinValue <
value (<=) System.SByte.MaxValue.
Abs

1	
2	[C#] public static float Abs(float value);
3	[C++] public: static float Abs(float value);
4	[VB] Public Shared Function Abs(ByVal value As Single) As Single
5	[JScript] public static function Abs(value : float) : float;
6	
7	Description
8	Returns the absolute value of a single-precision floating point number.
9	Return Value: A single-precision floating point number, x, such that 0 (<=) x (<=)
10	System.Single.MaxValue. A number in the range System.Single.MinValue <
11	value (<=) System.Single.MaxValue.
12	Acos
13	
14	[C#] public static double Acos(double d);
15	[C++] public: static double Acos(double d);
16	[VB] Public Shared Function Acos(ByVal d As Double) As Double
17	[JScript] public static function Acos(d : double) : double;
18	
19	Description
20	Returns the angle whose cosine is the specified number.
21	Return Value: An angle, q, measured in radians, such that $0 \ll q \ll pi$ or-
22	System.Double.NaN if $d < -1$ or $d > 1$.
23	Multiply the return value by 180/(pi) to convert from radians to degrees. A
24	number representing a cosine, where -1 (<=) d (<=) 1.
25	Asin

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1 [C#] public static double Asin(double d); 2 [C++] public: static double Asin(double d); 3 [VB] Public Shared Function Asin(ByVal d As Double) As Double [JScript] public static function Asin(d: double): double; 5 6 Description 7 Returns the angle whose sine is the specified number. 8 Return Value: An angle, q, measured in radians, such that -(pi)/2 (<=) q (<=) (pi)/2 9 -or- **System.Double.NaN** if $d \le -1$ or $d \ge 1$. 10 A positive return value represents a counterclockwise angle from the x-11 axis; a negative return value represents a clockwise angle. A number representing 12 a sine, where -1 (<=) d (<=) 1. 13 Atan 14 15 [C#] public static double Atan(double d); 16 [C++] public: static double Atan(double d); 17 [VB] Public Shared Function Atan(ByVal d As Double) As Double 18 [JScript] public static function Atan(d: double): double; 19 20 Description 21 Returns the angle whose tangent is the specified number. 22 Return Value: An angle, q, measured in radians, such that -(pi)/2 (<=) q (<=) (pi)/2.24

A positive return value represents a counterclockwise angle from the x-axis; a negative return value represents a clockwise angle. A number representing a tangent.

Atan2

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[C#] public static double Atan2(double y, double x);

[C++] public: static double Atan2(double y, double x);

[VB] Public Shared Function Atan2(ByVal y As Double, ByVal x As Double) As Double

[JScript] public static function Atan2(y: double, x: double): double;

Description

Returns the angle whose tangent is the quotient of two specified numbers. Return Value: An angle, q, measured in radians, such that -(pi) < q (<=) (pi), and $\tan(q) = y/x$, where (x, y) is a point in the Cartesian plane. Observe the following: For (x, y) in quadrant 1, 0 < q < (pi)/2.

The return value is the angle in the Cartesian plane formed by the x-axis, and a vector starting from the origin, (0,0), and terminating at the point, (x,y). The y coordinate of a point. The x coordinate of a point.

Ceiling

[C#] public static double Ceiling(double a);

[C++] public: static double Ceiling(double a);

[VB] Public Shared Function Ceiling(ByVal a As Double) As Double

[JScript] public static function Ceiling(a : double) : double;

25

Description 2 Returns the smallest whole number greater than or equal to the specified 3 number. Return Value: The smallest whole number greater than or equal to a. 5 The behavior of this method follows IEEE Standard 754, section 4. This 6 kind of rounding is sometimes called rounding towards positive infinity. A 7 number. 8 Cos 10 [C#] public static double Cos(double d); 11 [C++] public: static double Cos(double d); 12 [VB] Public Shared Function Cos(ByVal d As Double) As Double 13 [JScript] public static function Cos(d : double) : double; 14 15 Description 16 Returns the cosine of the specified angle. 17 Return Value: The cosine of d. 18 The angle, d, must be in radians. Multiply by (pi)/180 to convert degrees to 19 radians. An angle, measured in radians. 20 Cosh 21 22 [C#] public static double Cosh(double value); 23

[C++] public: static double Cosh(double value);

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[VB] Public Shared Function Cosh(ByVal value As Double) As Double

1	[JScript] public static function Cosh(value : double) : double;
2	
3	Description
4	Returns the hyperbolic cosine of the specified angle.
5	Return Value: The hyperbolic cosine of value. An angle, measured in radians.
6	Exp
7	
8	[C#] public static double Exp(double d);
9	[C++] public: static double Exp(double d);
10	[VB] Public Shared Function Exp(ByVal d As Double) As Double
11	[JScript] public static function Exp(d : double) : double;
12	
13	Description
14	Returns e raised to the specified power.
15	Return Value: The number e raised to the power d .
16	Use the System.Math.Pow(System.Double,System.Double) method to
17	calculate powers of other bases. A number specifying a power.
18	Floor
19	
20	[C#] public static double Floor(double d);
21	[C++] public: static double Floor(double d);
22	[VB] Public Shared Function Floor(ByVal d As Double) As Double
23	[JScript] public static function Floor(d : double) : double;
24	
25	Description

Returns the largest whole number less than or equal to the specified number.

*Return Value: The largest whole number less than or equal to d.

The behavior of this method follows IEEE Standard 754, section 4. This kind of rounding is sometimes called rounding towards negative infinity. A number.

IEEERemainder

[C#] public static double IEEERemainder(double x, double y);

[C++] public: static double IEEERemainder(double x, double y);

[VB] Public Shared Function IEEERemainder(ByVal x As Double, ByVal y As Double) As Double

Description

Returns the remainder resulting from the division of a specified number by another specified number.

[JScript] public static function IEEERemainder(x : double, y : double) : double;

Return Value: A number equal to x - (y Q), where Q is the quotient of x/y rounded to the nearest integer (if x/y falls halfway between two integers, the even integer is returned).

This operation complies with the remainder operation defined in Section 5.1 of ANSI/IEEE Std 754-1985; IEEE Standard for Binary Floating-Point Arithmetic; Institute of Electrical and Electronics Engineers, Inc; 1985. A dividend. A divisor.

Log

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1	
2	[C#] public static double Log(double d);
3	[C++] public: static double Log(double d);
4	[VB] Public Shared Function Log(ByVal d As Double) As Double
5	[JScript] public static function Log(d: double): double; Returns the logarithm of a
6	specified number.
7	
8	Description
9	Returns the natural (base e) logarithm of a specified number.
10	Return Value: Sign of d Returns Positive The natural logarithm of d ; that is, $\ln d$,
11	or log e d Zero System.Double.PositiveInfinity Negative System.Double.NaN
12	d is specified as a base 10 number. A number whose logarithm is to be
13	found.
14	Log
15	
16	[C#] public static double Log(double a, double newBase);
17	[C++] public: static double Log(double a, double newBase);
18	[VB] Public Shared Function Log(ByVal a As Double, ByVal newBase As
19	Double) As Double
20	[JScript] public static function Log(a : double, newBase : double) : double;
21	
22	Description
23	Returns the logarithm of a specified number in a specified base.
24	Return Value: Sign of d Returns Positive The logarithm of a , in base, newBase;
25	that is, $\log a$.

1	a and newBase are specified as base 10 numbers. A number whose
2	logarithm is to be found. The base of the logarithm.
3	Log10
4	
5	[C#] public static double Log10(double d);
6	[C++] public: static double Log10(double d);
7	[VB] Public Shared Function Log10(ByVal d As Double) As Double
8	[JScript] public static function Log10(d : double) : double;
9	
10	Description
11	Returns the base 10 logarithm of a specified number.
12	Return Value: Sign of d Returns Positive The base 10 log of d ; that is, log d .
13	d is specified as a base 10 number. A number whose logarithm is to be
14	found.
15	Max
16	
17	[C#] public static byte Max(byte val1, byte val2);
18	[C++] public: static unsigned char Max(unsigned char val1, unsigned char val2);
19	[VB] Public Shared Function Max(ByVal val1 As Byte, ByVal val2 As Byte) As
20	Byte
21	[JScript] public static function Max(val1 : Byte, val2 : Byte) : Byte;
22	
23	Description
24	
25	

1	Returns the larger of two 8-bit unsigned integers.
2	Return Value: val1 or val2, whichever is larger. The first of two 8-bit unsigned
3	integers to compare. The second of two 8-bit unsigned integers to compare.
4	Max
5	
6	[C#] public static decimal Max(decimal val1, decimal val2);
7	[C++] public: static Decimal Max(Decimal val1, Decimal val2);
8	[VB] Public Shared Function Max(ByVal val1 As Decimal, ByVal val2 As
9	Decimal) As Decimal
10	[JScript] public static function Max(val1 : Decimal, val2 : Decimal) : Decimal;
11	
12	Description
13	Returns the larger of two Decimal numbers.
14	Return Value: val1 or val2, whichever is larger. The first of two System.Decimal
15	numbers to compare. The second of two System.Decimal numbers to compare.
16	Max
17	
18	[C#] public static double Max(double val1, double val2);
19	[C++] public: static double Max(double val1, double val2);
20	[VB] Public Shared Function Max(ByVal val1 As Double, ByVal val2 As Double)
21	As Double
22	[JScript] public static function Max(val1 : double, val2 : double) : double;
23	
24	Description
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Returns the larger of two double-precision floating point numbers. Return Value: val1 or val2, whichever is larger. The first of two double-precision floating point numbers to compare. The second of two double-precision floating point numbers to compare. Max [C#] public static short Max(short val1, short val2); [C++] public: static short Max(short val1, short val2); [VB] Public Shared Function Max(ByVal val1 As Short, ByVal val2 As Short) As Short [JScript] public static function Max(val1 : Int16, val2 : Int16) : Int16; Description Returns the larger of two 16-bit signed integers. Return Value: val1 or val2, whichever is larger. The first of two 16-bit signed integers to compare. The second of two 16-bit signed integers to compare. Max [C#] public static int Max(int val1, int val2); [C++] public: static int Max(int val1, int val2); [VB] Public Shared Function Max(ByVal val1 As Integer, ByVal val2 As Integer) As Integer

Description

[JScript] public static function Max(val1: int, val2: int): int;

1	Returns the larger of two 32-bit signed integers.
2	Return Value: val1 or val2, whichever is larger. The first of two 32-bit signed
3	integers to compare. The second of two 32-bit signed integers to compare.
4	Max
5	
6	[C#] public static long Max(long val1, long val2);
7	[C++] public: staticint64 Max(int64 val1,int64 val2);
8	[VB] Public Shared Function Max(ByVal val1 As Long, ByVal val2 As Long) As
9	Long
10	[JScript] public static function Max(val1 : long, val2 : long) : long;
11	
12	Description
13	Returns the larger of two 64-bit signed integers.
14	Return Value: val1 or val2, whichever is larger. The first of two 64-bit signed
15	integers to compare. The second of two 64-bit signed integers to compare.
16	Max
17	
18	[C#] public static sbyte Max(sbyte val1, sbyte val2);
19	[C++] public: static char Max(char val1, char val2);
20	[VB] Public Shared Function Max(ByVal val1 As SByte, ByVal val2 As SByte)
21	As SByte
22	[JScript] public static function Max(val1 : SByte, val2 : SByte) : SByte; Returns
23	the larger of two specified numbers.
24	
25	Description

1 Returns the larger of two 8-bit signed integers. Return Value: val1 or val2, whichever is larger. The first of two 8-bit unsigned 2 integers to compare. The second of two 8-bit unsigned integers to compare. 3 Max 4 5 [C#] public static float Max(float val1, float val2); 6 [C++] public: static float Max(float val1, float val2); 7 [VB] Public Shared Function Max(ByVal val1 As Single, ByVal val2 As Single) 8 As Single 9 [JScript] public static function Max(val1 : float, val2 : float) : float; 10 11 Description 12 Returns the larger of two single-precision floating point numbers. 13 Return Value: val1 or val2, whichever is larger. The first of two single-precision 14 floating point numbers to compare. The second of two single-precision floating 15 point numbers to compare. Max 17 18 [C#] public static ushort Max(ushort val1, ushort val2); 19 [C++] public: static unsigned short Max(unsigned short val1, unsigned short val2); 20 [VB] Public Shared Function Max(ByVal val1 As UInt16, ByVal val2 As UInt16) 21 As UInt16 22 [JScript] public static function Max(val1 : UInt16, val2 : UInt16) : UInt16; 23 24

Description

1	Returns the larger of two 16-bit unsigned integers.
2	Return Value: val1 or val2, whichever is larger. The first of two 16-bit unsigned
3	integers to compare. The second of two 16-bit unsigned integers to compare.
4	Max
5	
6	[C#] public static uint Max(uint val1, uint val2);
7	[C++] public: static unsigned int Max(unsigned int val1, unsigned int val2);
8	[VB] Public Shared Function Max(ByVal val1 As UInt32, ByVal val2 As UInt32)
9	As UInt32
10	[JScript] public static function Max(val1 : UInt32, val2 : UInt32) : UInt32;
11	
12	Description
13	Returns the larger of two 32-bit unsigned integers.
14	Return Value: val1 or val2, whichever is larger. The first of two 32-bit unsigned
15	integers to compare. The second of two 32-bit unsigned integers to compare.
16	Max
17	
18	[C#] public static ulong Max(ulong val1, ulong val2);
19	[C++] public: static unsignedint64 Max(unsignedint64 val1, unsigned
20	int64 val2);
21	[VB] Public Shared Function Max(ByVal val1 As UInt64, ByVal val2 As UInt64)
22	As UInt64
23	[JScript] public static function Max(val1 : UInt64, val2 : UInt64) : UInt64;
24	
25	Description

1 Returns the larger of two 64-bit unsigned integers. Return Value: val1 or val2, whichever is larger. The first of two 64-bit unsigned 2 integers to compare. The second of two 64-bit unsigned integers to compare. 3 Min 4 5 [C#] public static byte Min(byte val1, byte val2); 6 [C++] public: static unsigned char Min(unsigned char val1, unsigned char val2); 7 [VB] Public Shared Function Min(ByVal val1 As Byte, ByVal val2 As Byte) As 8 Byte 9 [JScript] public static function Min(val1 : Byte, val2 : Byte) : Byte; 10 11 Description 12 Returns the smaller of two 8-bit unsigned integers. 13 Return Value: val1 or val2, whichever is smaller. The first of two 8-bit unsigned 14 integers to compare. The second of two 8-bit unsigned integers to compare. 15 Min 16 17 [C#] public static decimal Min(decimal val1, decimal val2); 18 [C++] public: static Decimal Min(Decimal val1, Decimal val2); 19 [VB] Public Shared Function Min(ByVal val1 As Decimal, ByVal val2 As 20 Decimal) As Decimal 21 [JScript] public static function Min(val1 : Decimal, val2 : Decimal) : Decimal; 22 23 Description 24 25

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1	Returns the smaller of two Decimal numbers.
2	Return Value: a or val2, whichever is smaller. The first of two System.Decimal
3	numbers to compare. The second of two System.Decimal numbers to compare.
4	Min
5	
6	[C#] public static double Min(double val1, double val2);
7	[C++] public: static double Min(double val1, double val2);
8	[VB] Public Shared Function Min(ByVal val1 As Double, ByVal val2 As Double)
9	As Double
10	[JScript] public static function Min(val1 : double, val2 : double) : double;
11	
12	Description
13	Returns the smaller of two double-precision floating point numbers.
14	Return Value: a or val2, whichever is smaller. The first of two double-precision
15	floating point numbers to compare. The second of two double-precision floating
16	point numbers to compare.
17	Min
18	
19	[C#] public static short Min(short val1, short val2);
20	[C++] public: static short Min(short val1, short val2);
21	[VB] Public Shared Function Min(ByVal val1 As Short, ByVal val2 As Short) As
22	Short
23	[JScript] public static function Min(val1 : Int16, val2 : Int16) : Int16;
24	
25	Description

Returns the smaller of two 16-bit signed integers.
Return Value: val1 or val2, whichever is smaller. The first of two 16-bit signed
integers to compare. The second of two 16-bit signed integers to compare.
Min
[C#] public static int Min(int val1, int val2);
[C++] public: static int Min(int val1, int val2);
[VB] Public Shared Function Min(ByVal val1 As Integer, ByVal val2 As Integer)
As Integer
[JScript] public static function Min(val1 : int, val2 : int) : int;
Description
Returns the smaller of two 32-bit signed integers.
Return Value: val1 or val2, whichever is smaller. The first of two 32-bit signed
integers to compare. The second of two 32-bit signed integers to compare.
Min
[C#] public static long Min(long val1, long val2);
[C++] public: staticint64 Min(int64 val1,int64 val2);
[VB] Public Shared Function Min(ByVal val1 As Long, ByVal val2 As Long) As
Long
[JScript] public static function Min(val1 : long, val2 : long) : long;
Description

1	Returns the smaller of two 64-bit signed integers.
2	Return Value: val1 or val2, whichever is smaller. The first of two 64-bit signed
3	integers to compare. The second of two 64-bit signed integers to compare.
4	Min
5	
6	[C#] public static sbyte Min(sbyte val1, sbyte val2);
7	[C++] public: static char Min(char val1, char val2);
8	[VB] Public Shared Function Min(ByVal val1 As SByte, ByVal val2 As SByte)
9	As SByte
10	[JScript] public static function Min(val1 : SByte, val2 : SByte) : SByte; Returns
11	the smaller of two numbers.
12	
13	Description
14	Returns the smaller of two 8-bit signed integers.
15	Return Value: val1 or val2, whichever is smaller. The first of two 8-bit signed
16	integers to compare. The second of two 8-bit signed integers to compare.
17	Min
18	
19	[C#] public static float Min(float val1, float val2);
20	[C++] public: static float Min(float val1, float val2);
21	[VB] Public Shared Function Min(ByVal val1 As Single, ByVal val2 As Single)
22	As Single
23	[JScript] public static function Min(val1 : float, val2 : float) : float;
24	
25	Description

1	Returns the smaller of two single-precision floating point numbers.
2	Return Value: val1 or val2, whichever is smaller. The first of two single-precision
3	floating point numbers to compare. The second of two single-precision floating
4	point numbers to compare.
5	Min
6	
7	[C#] public static ushort Min(ushort val1, ushort val2);
8	[C++] public: static unsigned short Min(unsigned short val1, unsigned short val2);
9	[VB] Public Shared Function Min(ByVal val1 As UInt16, ByVal val2 As UInt16)
10	As UInt16
11	[JScript] public static function Min(val1: UInt16, val2: UInt16): UInt16;
12	
13	Description
14	Returns the smaller of two 16-bit unsigned integers.
15	Return Value: val1 or val2, whichever is smaller. The first of two 16-bit unsigned
16	integers to compare. The second of two 16-bit unsigned integers to compare.
17	Min
18	
19	[C#] public static uint Min(uint val1, uint val2);
20	[C++] public: static unsigned int Min(unsigned int val1, unsigned int val2);
21	[VB] Public Shared Function Min(ByVal val1 As UInt32, ByVal val2 As UInt32)
22	As UInt32
23	[JScript] public static function Min(val1 : UInt32, val2 : UInt32) : UInt32;
24	
25	Description

1	Returns the smaller of two 32-bit unsigned integers.
2	Return Value: val1 or val2, whichever is smaller. The first of two 32-bit unsigned
3	integers to compare. The second of two 32-bit unsigned integers to compare.
4	Min
5	
6	[C#] public static ulong Min(ulong val1, ulong val2);
7	[C++] public: static unsignedint64 Min(unsignedint64 val1, unsigned
8	int64 val2);
9	[VB] Public Shared Function Min(ByVal val1 As UInt64, ByVal val2 As UInt64)
10	As UInt64
11	[JScript] public static function Min(val1 : UInt64, val2 : UInt64) : UInt64;
12	
13	Description
14	Returns the smaller of two 64-bit unsigned integers.
15	Return Value: val1 or val2, whichever is smaller. The first of two 64-bit unsigned
16	integers to compare. The second of two 64-bit unsigned integers to compare.
17	Pow
18	
19	[C#] public static double Pow(double x, double y);
20	[C++] public: static double Pow(double x, double y);
21	[VB] Public Shared Function Pow(ByVal x As Double, ByVal y As Double) As
22	Double
23	[JScript] public static function Pow(x : double, y : double) : double;
24	
25	Description

1	Returns a specified number raised to the specified power.
2	Return Value: The number x raised to the power y. A number to be raised to a
3	power. A number that specifies a power.
4	Round
5	
6	[C#] public static decimal Round(decimal d);
7	[C++] public: static Decimal Round(Decimal d);
8	[VB] Public Shared Function Round(ByVal d As Decimal) As Decimal
9	[JScript] public static function Round(d: Decimal): Decimal;
10	
11	Description
12	Returns the whole number nearest the specified value.
13	Return Value: The whole number nearest parameter d . If d is halfway between
14	two whole numbers, one of which by definition is even and the other odd, then the
15	even number is returned.
16	The behavior of this method follows IEEE Standard 754, section 4. This
17	kind of rounding is sometimes called rounding to nearest, or banker's rounding. A
18	System.Decimal number to be rounded.
19	Round
20	
21	[C#] public static double Round(double a);
22	[C++] public: static double Round(double a);
23	[VB] Public Shared Function Round(ByVal a As Double) As Double
24	[JScript] public static function Round(a : double) : double; Returns the number

nearest the specified value.

Description

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Returns the whole number nearest the specified value.

Return Value: The whole number nearest a. If a is halfway between two whole numbers, one of which by definition is even and the other odd, then the even number is returned.

The behavior of this method follows IEEE Standard 754, section 4. This kind of rounding is sometimes called rounding to nearest, or banker's rounding. A double-precision floating point number to be rounded.

Round

[C#] public static decimal Round(decimal d, int decimals);

[C++] public: static Decimal Round(Decimal d, int decimals);

[VB] Public Shared Function Round(ByVal d As Decimal, ByVal decimals As Integer) As Decimal

[JScript] public static function Round(d: Decimal, decimals: int): Decimal;

Description

Returns the number with the specified precision nearest the specified value. Return Value: The number nearest d with precision equal to decimals. If d is halfway between two numbers, one of which is even and the other odd, then the even number is returned. If the precision of d is less than decimals, then d is returned unchanged.

The *decimals* parameter specifies the number of significant fractional digits in the return value and ranges from 0 to 28. If *decimals* is zero, then a whole

and the least and substituting the state of the state of

number is returned. A **System.Decimal** number to be rounded. The number of significant fractional digits (precision) in the return value.

Round

[C#] public static double Round(double value, int digits);

[C++] public: static double Round(double value, int digits);

[VB] Public Shared Function Round(ByVal value As Double, ByVal digits As Integer) As Double

[JScript] public static function Round(value : double, digits : int) : double;

Description

Returns the number with the specified precision nearest the specified value. Return Value: The number nearest value with precision equal to digits. If value is halfway between two numbers, one of which is even and the other odd, then the even number is returned. If the precision of value is less than digits, then value is returned unchanged.

The *digits* parameter specifies the number of significant fractional digits in the return value and ranges from 0 to 15. If *digits* is zero, then a whole number is returned. A double-precision floating point number to be rounded. The number of significant fractional digits (precision) in the return value.

Sign

[C#] public static int Sign(decimal value);

[C++] public: static int Sign(Decimal value);

[VB] Public Shared Function Sign(ByVal value As Decimal) As Integer

1	[JScript] public static function Sign(value : Decimal) : int;
2	
3	Description
4	Returns a value indicating the sign of a Decimal number.
5	Return Value: A number indicating the sign of value. A signed System.Decimal
6	number.
7	Sign
8	
9	[C#] public static int Sign(double value);
10	[C++] public: static int Sign(double value);
11	[VB] Public Shared Function Sign(ByVal value As Double) As Integer
12	[JScript] public static function Sign(value : double) : int;
13	
14	Description
15	Returns a value indicating the sign of a double-precision floating point
16	number.
17	Return Value: A number indicating the sign of value. A signed number.
18	Sign
19	
20	[C#] public static int Sign(short value);
21	[C++] public: static int Sign(short value);
22	[VB] Public Shared Function Sign(ByVal value As Short) As Integer
23	[JScript] public static function Sign(value : Int16) : int; Returns a value indicating
24	the sign of a number.
25	

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1	
2	Description
3	Returns a value indicating the sign of a 16-bit signed integer.
4	Return Value: A number indicating the sign of value. A signed number.
5	Sign
6	
7	[C#] public static int Sign(int value);
8	[C++] public: static int Sign(int value);
9	[VB] Public Shared Function Sign(ByVal value As Integer) As Integer
10	[JScript] public static function Sign(value : int) : int; Returns a value indicating the
11	sign of a number.
12	
13	Description
14	Returns a value indicating the sign of a 32-bit signed integer.
15	Return Value: A number indicating the sign of value. A signed number.
16	Sign
17	
18	[C#] public static int Sign(long value);
19	[C++] public: static int Sign(int64 value);
20	[VB] Public Shared Function Sign(ByVal value As Long) As Integer
21	[JScript] public static function Sign(value : long) : int;
22	
23	Description
24	Returns a value indicating the sign of a 64-bit signed integer.
25	Return Value: A number indicating the sign of value. A signed number.
1.	

1	Sign
2	
3	[C#] public static int Sign(sbyte value);
4	[C++] public: static int Sign(char value);
5	[VB] Public Shared Function Sign(ByVal value As SByte) As Integer
6	[JScript] public static function Sign(value : SByte) : int; Returns a value indicating
7	the sign of a number.
8	
9	Description
10	Returns a value indicating the sign of an 8-bit signed integer.
11	Return Value: A number indicating the sign of value. Number Description -1
12	value is less than zero. A signed number.
13	Sign
14	
15	[C#] public static int Sign(float value);
16	[C++] public: static int Sign(float value);
17	[VB] Public Shared Function Sign(ByVal value As Single) As Integer
18	[JScript] public static function Sign(value : float) : int;
19	
20	Description
21	Returns a value indicating the sign of a single-precision floating point
22	number.
23	Return Value: A number indicating the sign of value. A signed number.
24	Sin
25	

1	
2	[C#] public static double Sin(double a);
3	[C++] public: static double Sin(double a);
4	[VB] Public Shared Function Sin(ByVal a As Double) As Double
5	[JScript] public static function Sin(a : double) : double;
6	
7	Description
8	Returns the sine of the specified angle.
9	Return Value: The sine of a.
10	The angle, a , must be in radians. Multiply by (pi)/180 to convert degrees to
11	radians. An angle, measured in radians.
12	Sinh
13	
14	[C#] public static double Sinh(double value);
15	[C++] public: static double Sinh(double value);
16	[VB] Public Shared Function Sinh(ByVal value As Double) As Double
17	[JScript] public static function Sinh(value : double) : double;
18	
19	Description
20	Returns the hyperbolic sine of the specified angle.
21	Return Value: The hyperbolic sine of value. An angle, measured in radians.
22	Sqrt
23	
24	[C#] public static double Sqrt(double d);
25	[C++] public: static double Sqrt(double d);

1	[VB] Public Shared Function Sqrt(ByVal d As Double) As Double
2	[JScript] public static function Sqrt(d : double) : double;
3	
4	Description
5	Returns the square root of a specified number.
6	Return Value: Value of d Returns Zero, or positive The positive square root of d .
7	A number.
8	Tan
9	
10	[C#] public static double Tan(double a);
11	[C++] public: static double Tan(double a);
12	[VB] Public Shared Function Tan(ByVal a As Double) As Double
13	[ĴScript] public static function Tan(a : double) : double;
14	
15	Description
16	Returns the tangent of the specified angle.
17	Return Value: The tangent of a .
18	The angle, a , must be in radians. Multiply by (pi)/180 to convert degrees to
19	radians. An angle, measured in radians.
20	Tanh
21	
22	[C#] public static double Tanh(double value);
23	[C++] public: static double Tanh(double value);
24	[VB] Public Shared Function Tanh(ByVal value As Double) As Double
25	[JScript] public static function Tanh(value : double) : double;

MemberAccessException class (System) ToString Description The exception that is thrown when an attempt to access a class member fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a clamember is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New()	1	
Returns the hyperbolic tangent of the specified angle. Return Value: The hyperbolic tangent of value. An angle, measured in rad MemberAccessException class (System) ToString Description The exception that is thrown when an attempt to access a class mem fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException . These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instantant process.	1	
Return Value: The hyperbolic tangent of value. An angle, measured in radic MemberAccessException class (System) ToString Description The exception that is thrown when an attempt to access a class membrails. System.MemberAccessException is the base class for System.MissingMemberException, System.MissingMethodException System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a clamember is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instantal member in the substantal member is not permitted.	2	Description
MemberAccessException class (System) ToString Description The exception that is thrown when an attempt to access a class mem fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	3	Returns the hyperbolic tangent of the specified angle.
ToString Description The exception that is thrown when an attempt to access a class memoralistic. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a class member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instal	4	Return Value: The hyperbolic tangent of value. An angle, measured in radians.
Description The exception that is thrown when an attempt to access a class mem fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	5	MemberAccessException class (System)
Description The exception that is thrown when an attempt to access a class memoralistic. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a class member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instal	6	ToString
The exception that is thrown when an attempt to access a class mem fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new installation.	7	
The exception that is thrown when an attempt to access a class mem fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() JScript] public function MemberAccessException(); Initializes a new instal	8	
fails. System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instal	9	Description
System.MemberAccessException is the base class for System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	10	The exception that is thrown when an attempt to access a class member
System.FieldAccessException, System.MethodAccessException, System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instal	11	fails.
System.MissingMemberException, System.MissingMethodException System.MissingFieldException. These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new instal	12	System.MemberAccessException is the base class for
System.MissingFieldException . These exceptions are thrown when a cla member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	13	System.FieldAccessException, System.MethodAccessException,
member is not found or access to the member is not permitted. MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	14	System.MissingMemberException, System.MissingMethodException, and
MemberAccessException Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new installation.	15	System.MissingFieldException. These exceptions are thrown when a class
Example Syntax: ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	16	member is not found or access to the member is not permitted.
ToString [C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	17	MemberAccessException
[C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	18	Example Syntax:
[C#] public MemberAccessException(); [C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	19	ToString
[C++] public: MemberAccessException(); [VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	20	
[VB] Public Sub New() [JScript] public function MemberAccessException(); Initializes a new insta	21	[C#] public MemberAccessException();
[JScript] public function MemberAccessException(); Initializes a new insta	22	[C++] public: MemberAccessException();
	23	[VB] Public Sub New()
the System.MemberAccessException class.	24	[JScript] public function MemberAccessException(); Initializes a new instance of
	25	the System.MemberAccessException class.

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2	Description
3	Initializes a new instance of the System.MemberAccessException class
4	with default properties.
5	The following table shows the initial property values for an instance of
6	System.MemberAccessException .
7	MemberAccessException
8	Example Syntax:
9	ToString
10	
11	[C#] public MemberAccessException(string message);
12	[C++] public: MemberAccessException(String* message);
13	[VB] Public Sub New(ByVal message As String)
14	[JScript] public function MemberAccessException(message : String);
15	
16	Description
17	Initializes a new instance of the System.MemberAccessException class
18	with a specified error message.
19	The following table shows the initial property values for an instance of
20	System.MemberAccessException. The error message that explains the reason
21	for the exception.
22	MemberAccessException
23	Example Syntax:
24	ToString
25	

1	
2	[C#] protected MemberAccessException(SerializationInfo info, StreamingContext
3	context);
4	[C++] protected: MemberAccessException(SerializationInfo* info,
5	StreamingContext context);
6	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
7	StreamingContext)
8	[JScript] protected function MemberAccessException(info : SerializationInfo,
9	context : StreamingContext);
10	
11	Description
12	Initializes a new instance of the System.MemberAccessException class
13	with serialized data.
14	This constructor is called during deserialization to reconstitute the
15	exception object transmitted over a stream. For more information, see . The object
16	that holds the serialized object data. The contextual information about the source
17	or destination.
18	MemberAccessException
19	Example Syntax:
20	ToString
21	
22	[C#] public MemberAccessException(string message, Exception inner);
23	[C++] public: MemberAccessException(String* message, Exception* inner);
24	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
25	[JScript] public function MemberAccessException(message : String, inner :

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Exception);

Description

Initializes a new instance of the System.MemberAccessException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

MethodAccessException class (System)

ToString

Description

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1	The exception that is thrown when there is an illegal attempt to access a
2	private or protected method inside a class.
3	System.MethodAccessException uses the HRESULT
4	COR_E_METHODACCESS, which has the value 0x80131510.
5	MethodAccessException
6	Example Syntax:
7	ToString
8	
9	[C#] public MethodAccessException();
10	[C++] public: MethodAccessException();
11	[VB] Public Sub New()
12	[JScript] public function MethodAccessException(); Initializes a new instance of
13	the System.MethodAccessException class.
14	
15	Description
16	Initializes a new instance of the System.MethodAccessException class
17	with default properties.
18	The following table shows the initial property values for an instance of
19	System.MethodAccessException .
20	MethodAccessException
21	Example Syntax:
22	ToString
23	
24	[C#] public MethodAccessException(string message);
25	[C++] public: MethodAccessException(String* message);

1	[VB] Public Sub New(ByVal message As String)
2	[JScript] public function MethodAccessException(message : String);
3	
4	Description
5	Initializes a new instance of the System. Method Access Exception class
6	with a specified error message.
7	The following table shows the initial property values for an instance of
8	System.MethodAccessException. The error message that explains the reason for
9	the exception.
10	MethodAccessException
11	Example Syntax:
12	ToString
13	
14	[C#] protected MethodAccessException(SerializationInfo info, StreamingContext
15	context);
16	[C++] protected: MethodAccessException(SerializationInfo* info,
17	StreamingContext context);
18	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
19	StreamingContext)
20	[JScript] protected function MethodAccessException(info: SerializationInfo,
21	context : StreamingContext);
22	
23	Description
24	Initializes a new instance of the System.MethodAccessException class
25	with serialized data.

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This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

MethodAccessException

Example Syntax:

ToString

[C#] public MethodAccessException(string message, Exception inner); [C++] public: MethodAccessException(String* message, Exception* inner); [VB] Public Sub New(ByVal message As String, ByVal inner As Exception) [JScript] public function MethodAccessException(message : String, inner : Exception);

Description

Initializes a new instance of the System. Method Access Exception class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the System.Exception.InnerException property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

1	HelpLink
2	HResult
3	InnerException
4	Message
5	Source
6	StackTrace
7	TargetSite
8	MissingFieldException class (System)
9	ToString
10	
11	
12	Description
13	The exception that is thrown when there is an attempt to dynamically
14	access a field that does not exist.
15	System.MissingFieldException uses the HRESULT
16	COR_E_MISSINGFIELD, which has the value 0x80131511.
17	MissingFieldException
18	Example Syntax:
19	ToString
20	System.MissingFieldException
21	
22	Description
23	Initializes a new instance of the System.MissingFieldException class with
24	default properties.
25	

1	The following table shows the initial property values for an instance of
2	System.MissingFieldException .
3	MissingFieldException
4	Example Syntax:
5	ToString
6	
7	[C#] public MissingFieldException(string message);
8	[C++] public: MissingFieldException(String* message);
9	[VB] Public Sub New(ByVal message As String)
10	[JScript] public function MissingFieldException(message : String);
11	
12	Description
13	Initializes a new instance of the System. Missing Field Exception class with
14	a specified error message.
15	The following table shows the initial property values for an instance of
16	System.MissingFieldException. The error message that explains the reason for
17	the exception.
18	MissingFieldException
19	Example Syntax:
20	ToString
21	
22	[C#] protected MissingFieldException(SerializationInfo info, StreamingContext
23	context);
24	[C++] protected: MissingFieldException(SerializationInfo* info,
25	StreamingContext context);

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1	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
2	StreamingContext)
3	[JScript] protected function MissingFieldException(info: SerializationInfo,
4	context : StreamingContext);
5	
6	Description
7	Initializes a new instance of the System. Missing Field Exception class with
8	serialized data.
9	This constructor is called during deserialization to reconstitute the
10	exception object transmitted over a stream. For more information, see . The object
11	that holds the serialized object data. The contextual information about the source
12	or destination.
13	MissingFieldException
14	Example Syntax:
15	ToString
16	
17	[C#] public MissingFieldException(string message, Exception inner);
18	[C++] public: MissingFieldException(String* message, Exception* inner);
19	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
20	[JScript] public function MissingFieldException(message : String, inner :
21	Exception);
22	
23	Description
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25	

Initializes a new instance of the **System.MissingFieldException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If *inner* is non-null, then the current **Exception** is raised in a catch block handling *inner*.

MissingFieldException

Example Syntax:

ToString

[C#] public MissingFieldException(string className, string fieldName);
[C++] public: MissingFieldException(String* className, String* fieldName);
[VB] Public Sub New(ByVal className As String, ByVal fieldName As String)
[JScript] public function MissingFieldException(className : String, fieldName : String);

Description

Initializes a new instance of the **System.MissingFieldException** class with the specified class name and field name. The name of the class in which access to a nonexistent field was attempted. The name of the field that cannot be accessed.

HelpLink

HResult
InnerException
Message
ToString

Description

Gets the text string showing the signature of the missing field, the class name, and the field name.

If the class name is not specified when the object is constructed, the default text string inherited from the base class is returned. This property overrides **System.MissingMemberException.Message**. The error message should be localized.

Source

StackTrace

TargetSite

MissingMemberException class (System)

ToString

Description

The exception that is thrown when there is an attempt to dynamically access a class member that does not exist.

Normally a compilation error is generated if the code attempts to access a nonexistent member of a class.

1	ToString
2	
3	[C#] protected string ClassName;
4	[C++] protected: String* ClassName;
5	[VB] Protected ClassName As String
6	[JScript] protected var ClassName : String;
7	
8	Description
9	Holds the class name of the missing member.
10	ToString
11	
12	[C#] protected string MemberName;
13	[C++] protected: String* MemberName;
14	[VB] Protected MemberName As String
15	[JScript] protected var MemberName : String;
16	
17	Description
18	Holds the name of the missing member.
19	ToString
20	
21	[C#] protected byte[] Signature;
22	[C++] protected: unsigned char Signaturegc[];
23	[VB] Protected Signature() As Byte
24	[JScript] protected var Signature : Byte[];
25	

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2	Description
3	Holds the signature of the missing member.
4	System.MissingMemberException.Signature contains a System.Byte
5	value that represents the signature of the missing member.
6	MissingMemberException
7	Example Syntax:
8	ToString
9	
10	[C#] public MissingMemberException();
11	[C++] public: MissingMemberException();
12	[VB] Public Sub New()
13	[JScript] public function MissingMemberException(); Initializes a new instance of
14	the System.MissingMemberException class.
15	
16	Description
17	Initializes a new instance of the System.MissingMemberException class
18	with default properties.
19	The following table shows the initial property values for an instance of
20	System.MissingMemberException .
21	MissingMemberException
22	Example Syntax:
23	ToString
24	
25	[C#] public MissingMemberException(string message);

[C++] public: MissingMemberException(String* message);
[VB] Public Sub New(ByVal message As String)
[JScript] public function MissingMemberException(message : String);
Description
Initializes a new instance of the System. Missing Member Exception class
with a specified error message.
The following table shows the initial property values for an instance of
System.MissingMemberException. The error message that explains the reason
for the exception.
MissingMemberException
Example Syntax:
ToString
[C#] protected MissingMemberException(SerializationInfo info,
StreamingContext context);
[C++] protected: MissingMemberException(SerializationInfo* info,
StreamingContext context);
[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
StreamingContext)
[JScript] protected function MissingMemberException(info : SerializationInfo,
context : StreamingContext);
Description

Initializes a new instance of the **System.MissingMemberException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

MissingMemberException

Example Syntax:

ToString

[C#] public MissingMemberException(string message, Exception inner);
[C++] public: MissingMemberException(String* message, Exception* inner);
[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
[JScript] public function MissingMemberException(message: String, inner: Exception);

Description

Initializes a new instance of the **System.MissingMemberException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An

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instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner. MissingMemberException Example Syntax: **ToString** [C#] public MissingMemberException(string className, string memberName); [C++] public: MissingMemberException(String* className, String* memberName); [VB] Public Sub New(ByVal className As String, ByVal memberName As String) [JScript] public function MissingMemberException(className: String, memberName : String); Description Initializes a new instance of the System. Missing Member Exception class with the specified class name and member name. The name of the class in which access to a nonexistent member was attempted. The name of the member that cannot be accessed. HelpLink **HResult** InnerException

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Message

ToString

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Description

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Gets the text string showing the class name, the member name, and the signature of the missing member. If the class name is not specified when the object is constructed, the default text string inherited from the base class is returned.

This property overrides **System.Exception.Message** . The error message should be localized.

Source

StackTrace

TargetSite

GetObjectData

[C#] public override void GetObjectData(SerializationInfo info, StreamingContext context);

[C++] public: void GetObjectData(SerializationInfo* info, StreamingContext context);

[VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo,

ByVal context As StreamingContext)

 $[JScript]\ public\ override\ function\ GetObjectData (info: SerializationInfo,\ context: line of the context of the context$

StreamingContext);

Description

Sets the System.Runtime.Serialization.SerializationInfo object with the class name, the member name, the signature of the missing member, and additional exception information.

System.TypeLoadException.GetObjectData(System.Runtime.Serialization.SerializationInfo,System.Runtime.Serialization.StreamingContext) sets a System.Runtime.Serialization.SerializationInfo with all the exception object data targeted for serialization. During deserialization, the exception object is reconstituted from the System.Runtime.Serialization.SerializationInfo transmitted over the stream. The object that holds the serialized object data. The contextual information about the source or destination.

MissingMethodException class (System)

ToString

Description

The exception that is thrown when there is an attempt to dynamically access a method that does not exist.

System.MissingMethodException uses the HRESULT COR E_MISSINGMETHOD, which has the value 0x80131513.

MissingMethodException

Example Syntax:

ToString

System. Missing Method Exception

Description

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Initializes a new instance of the **System.MissingMethodException** class with default properties.

The following table shows the initial property values for an instance of **System.MissingMethodException**.

MissingMethodException

Example Syntax:

ToString

[C#] public MissingMethodException(string message);

[C++] public: MissingMethodException(String* message);

[VB] Public Sub New(ByVal message As String)

[JScript] public function MissingMethodException(message: String);

Description

Initializes a new instance of the **System.MissingMethodException** class with a specified error message.

The following table shows the initial property values for an instance of **System.MissingMethodException**. The error message that explains the reason for the exception.

MissingMethodException

Example Syntax:

ToString

[C#] protected MissingMethodException(SerializationInfo info, StreamingContext context);

1	[C++] protected: MissingMethodException(SerializationInfo* info,
2	StreamingContext context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function MissingMethodException(info: SerializationInfo,
6	context: StreamingContext);
7	
8	Description
9	Initializes a new instance of the System.MissingMethodException class
10	with serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	MissingMethodException
16	Example Syntax:
17	ToString
18	
19	[C#] public MissingMethodException(string message, Exception inner);
20	[C++] public: MissingMethodException(String* message, Exception* inner);
21	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
22	[JScript] public function MissingMethodException(message : String, inner :
23	Exception);
24	
25	Description

Initializes a new instance of the **System.MissingMethodException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

MissingMethodException

Example Syntax:

ToString

[C#] public MissingMethodException(string className, string methodName); [C++] public: MissingMethodException(String* className, String* methodName);

[VB] Public Sub New(ByVal className As String, ByVal methodName As String)

[JScript] public function MissingMethodException(className : String, methodName : String);

Description

Initializes a new instance of the **System.MissingMethodException** class with the specified class name and method name. The name of the class in which

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access to a nonexistent method was attempted. The name of the method that cannot be accessed. HelpLink **HResult** InnerException Message **ToString** Description Gets the text string showing the class name, the method name, and the signature of the missing method. If the class name is not specified when the object is constructed, the default text string inherited from the base class is returned. Source StackTrace TargetSite MTAThreadAttribute class (System) **ToString** Description

Indicates the default threading model for an application is multi-threaded apartment.

Only apply this attribute to the main method of an application.

1	MTAThreadAttribute
2	Example Syntax:
3	ToString
4	
5	[C#] public MTAThreadAttribute();
6	[C++] public: MTAThreadAttribute();
7	[VB] Public Sub New()
8	[JScript] public function MTAThreadAttribute();
9	
10	Description
11	Initializes a new instance of the System.MTAThreadAttribute class.
12	TypeId
13	MulticastDelegate class (System)
14	ToString
15	
16	
17	Description
18	Represents a multicast delegate; that is, a delegate that can have more than
19	one element in its invocation list.
20	All multicast delegates are derived from class MulticastDelegate.
21	MulticastDelegate
22	Example Syntax:
23	ToString
24	
25	[C#] protected MulticastDelegate(object target, string method);

[C++] protected: MulticastDelegate(Object* target, String* method);
[VB] Protected Sub New(ByVal target As Object, ByVal method As String)
[JScript] protected function MulticastDelegate(target : Object, method : String);
Initializes a new instance of the MulticastDelegate class.
Description

Description

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Initializes a new instance of the MulticastDelegate class. This constructor is called from the class generated by the compiler-generated code.

This must match the constructor in **Delegate** . The object on which the specified method is defined. The name of the method for which to create a delegate.

MulticastDelegate

Example Syntax:

ToString

[C#] protected MulticastDelegate(Type target, string method);

[C++] protected: MulticastDelegate(Type* target, String* method);

[VB] Protected Sub New(ByVal target As Type, ByVal method As String)

[JScript] protected function MulticastDelegate(target: Type, method: String);

Description

Initializes a new instance of the MulticastDelegate class. This constructor is called from a class to generate a delegate based upon a static method name and the Type object for the class defining the method. The Type object that represents

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the class that the specified method is defined on. The name of the static method for
which to create a delegate.
Method
Target
CombineImpl
[C#] protected override Delegate CombineImpl(Delegate follow);
[C++] protected: Delegate* CombineImpl(Delegate* follow);
[VB] Overrides Protected Function CombineImpl(ByVal follow As Delegate) As
Delegate
[JScript] protected override function CombineImpl(follow : Delegate) : Delegate;
Description
Combines this System. Delegate with the passed Delegate to form a new
delegate.
Return Value: A Delegate object as the new root. The Delegate with which to
combine this Delegate.
DynamicInvokeImpl
[C#] protected override object DynamicInvokeImpl(object[] args);
[C++] protected: Object* DynamicInvokeImpl(Object* argsgc[]);
[VB] Overrides Protected Function DynamicInvokeImpl(ByVal args() As Object)
As Object
[JScript] protected override function DynamicInvokeImpl(args : Object[]) :
Object;

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Description

Processes the full invocation list.

Value: An array of type Object that contains the return value of the sulated method. The arguments to be passed to the encapsulated method.

Equals

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[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean [JScript] public override function Equals(obj : Object) : Boolean;

Description

Determines whether this multicast delegate and the specified object are equal.

Return Value: true if obj and this instance have the same invocation lists; otherwise, false.

Two delegates, whether single- or multi-cast, are equal if they have the same invocation lists. Two invocation lists are considered identical if they have the same order, and the corresponding elements from the two lists represent the same method and target. The object to compare with this instance.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

```
[VB] Overrides Public Function GetHashCode() As Integer
    [JScript] public override function GetHashCode(): int;
2
3
    Description
           Returns the hash code for this instance.
5
    Return Value: A 32-bit signed integer hash code.
6
           GetInvocationList
7
8
    [C#] public override Delegate[] GetInvocationList();
9
    [C++] public: Delegate* GetInvocationList() [];
10
    [VB] Overrides Public Function GetInvocationList() As Delegate()
11
    [JScript] public override function GetInvocationList() : Delegate[];
12
13
    Description
14
           Returns the invocation list of this multicast delegate, in invocation order.
15
    Return Value: An array of delegates in the invocation list.
16
            op Equality
17
18
    [C#] public static new bool operator == (MulticastDelegate d1, MulticastDelegate
    d2);
20
     [C++] public: static bool op_Equality(MulticastDelegate* d1, MulticastDelegate*
21
     d2);
22
     [VB] returnValue = MulticastDelegate.op Equality(d1, d2)
     [JScript] returnValue = d1 == d2;
25
```

Description

Determines whether two MulticastDelegate objects are equal.

Return Value: True if d1 and d2 have the same invocation lists; otherwise false.

Two delegates, whether single- or multi-cast, are equal if they have the same invocation lists. Two invocation lists are considered identical if they have the same order, and the corresponding elements from the two lists represent the same method and target. The left operand. The right operand.

op_Inequality

[C#] public static new bool operator !=(MulticastDelegate d1, MulticastDelegate d2);

[C++] public: static bool op_Inequality(MulticastDelegate* d1,

MulticastDelegate* d2);

[VB] returnValue = MulticastDelegate.op_Inequality(d1, d2)

[JScript] returnValue = d1 != d2;

Description

Determines whether two MulticastDelegate objects are not equal.

Return Value: True if d1 and d2 do not have the same invocation lists; otherwise false.

Two delegates, whether single- or multi-cast, are equal if they have the same invocation lists. Two invocation lists are considered identical if they have the same order, and the corresponding elements from the two lists represent the same method and target. The left operand. The right operand.

RemoveImpl

[C#] protected override Delegate RemoveImpl(Delegate value);

[C++] protected: Delegate* RemoveImpl(Delegate* value);

[VB] Overrides Protected Function RemoveImpl(ByVal value As Delegate) As Delegate

[JScript] protected override function RemoveImpl(value : Delegate) : Delegate;

Description

Searches the invocation list for an element that has **System.Delegate** -based equality with *value* .

Return Value: A new **Delegate** if an element on the invocation list is found that has **Delegate** -based equality with value (and thus is removed from the invocation list). If such an element is not found, the current invocation list is returned. The **Delegate** to search for in the invocation list.

MulticastNotSupportedException class (System)
ToString

Description

The exception that is thrown when there is an attempt to combine two instances of a non-combinable delegate type unless one of the operands is **null**. This class cannot be inherited.

A valid delegate combination is made when one or both operands is a combinable delegate type. If both operands are non-combinable delegate type,

1	then one operand must be null . A combinable delegate type must satisfy the
2	following conditions: The declared return type of the delegate must be void.
3	MulticastNotSupportedException
4	Example Syntax:
5	ToString
6	
7	[C#] public MulticastNotSupportedException();
8	[C++] public: MulticastNotSupportedException();
9	[VB] Public Sub New()
10	[JScript] public function MulticastNotSupportedException(); Initializes a new
11	instance of the System.MulticastNotSupportedException class.
12	
13	Description
14	Initializes a new instance of the
15	System.MulticastNotSupportedException class with default properties.
16	The following table shows the initial property values for an instance of
17	System.MulticastNotSupportedException .
18	MulticastNotSupportedException
19	Example Syntax:
20	ToString
21	
22	[C#] public MulticastNotSupportedException(string message);
23	[C++] public: MulticastNotSupportedException(String* message);
24	[VB] Public Sub New(ByVal message As String)
25	[JScript] public function MulticastNotSupportedException(message : String);

Description

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Initializes a new instance of the

System.MulticastNotSupportedException class with a specified error message.

The following table shows the initial property values for an instance of System.MulticastNotSupportedException . The error message that explains the reason for the exception.

MulticastNotSupportedException

Example Syntax:

ToString

[C#] public MulticastNotSupportedException(string message, Exception inner); [C++] public: MulticastNotSupportedException(String* message, Exception* inner);

[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)

[JScript] public function MulticastNotSupportedException(message : String, inner : Exception);

Description

Initializes a new instance of the

System.MulticastNotSupportedException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the

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constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If *inner* is non-null, then the current **Exception** is raised in a catch block handling *inner*.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

NonSerializedAttribute class (System)

ToString

Description

Indicates that a field of a serializable class should not be serialized. This class cannot be inherited.

The target objects for the **System.NonSerializedAttribute** are public and private fields of a serializable class. By default, classes are not serializable unless they are marked with the **System.SerializableAttribute**. During the serialization process all the public and private fields of a class are serialized by default. Fields that must not be serialized can be marked with the

System.NonSerializedAttribute, which instructs the serialization process to ignore the target field during serialization.

1	NonSerializedAttribute
2	Example Syntax:
3	ToString
4	
5	[C#] public NonSerializedAttribute();
6	[C++] public: NonSerializedAttribute();
7	[VB] Public Sub New()
8	[JScript] public function NonSerializedAttribute();
9	
10	Description
11	Initializes a new instance of the System.NonSerializedAttribute class.
12	TypeId
13	NotFiniteNumberException class (System)
14	ToString
15	
16	
17	Description
18	The exception that is thrown when a floating-point value is positive
19	infinity, negative infinity, or Not-a-Number (NaN).
20	Applications written in C# will not throw this exception.
21	NotFiniteNumberException
22	Example Syntax:
23	ToString
24	
25	[C#] public NotFiniteNumberException();

1	[C++] public: NotFiniteNumberException(),
2	[VB] Public Sub New()
3	[JScript] public function NotFiniteNumberException(); Initializes a new instance
4	of the System.NotFiniteNumberException class.
5	
6	Description
7	Initializes a new instance of the System.NotFiniteNumberException class
8	with default properties.
9	The following table shows the initial property values for an instance of
10	System.NotFiniteNumberException .
11	NotFiniteNumberException
12	Example Syntax:
13	ToString
14	
15	[C#] public NotFiniteNumberException(double offendingNumber);
16	[C++] public: NotFiniteNumberException(double offendingNumber);
17	[VB] Public Sub New(ByVal offendingNumber As Double)
18	[JScript] public function NotFiniteNumberException(offendingNumber : double);
19	
20	Description
21	Initializes a new instance of the System.NotFiniteNumberException class
22	with the invalid number.
23	The offendingNumber parameter must be both a System.Double and an
24	invalid number. The invalid number.
25	NotFiniteNumberException

1	Example Syntax:
2	ToString
3	
4	[C#] public NotFiniteNumberException(string message);
5	[C++] public: NotFiniteNumberException(String* message);
6	[VB] Public Sub New(ByVal message As String)
7	[JScript] public function NotFiniteNumberException(message : String);
8	
9	Description
10	Initializes a new instance of the System.NotFiniteNumberException class
11	with a specified error message.
12	The following table shows the initial property values for an instance of
13	System.NotFiniteNumberException . The error message that explains the reason
14	for the exception.
15	NotFiniteNumberException
16	Example Syntax:
17	ToString
18	
19	[C#] protected NotFiniteNumberException(SerializationInfo info,
20	StreamingContext context);
21	[C++] protected: NotFiniteNumberException(SerializationInfo* info,
22	StreamingContext context);
23	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
24	StreamingContext)
25	[JScript] protected function NotFiniteNumberException(info : SerializationInfo,

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context : StreamingContext); Description Initializes a new instance of the System.NotFiniteNumberException class with serialized data. This constructor is called during deserialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination. NotFiniteNumberException Example Syntax: **ToString** [C#] public NotFiniteNumberException(string message, double offendingNumber); [C++] public: NotFiniteNumberException(String* message, double . offendingNumber); [VB] Public Sub New(ByVal message As String, ByVal offendingNumber As Double) [JScript] public function NotFiniteNumberException(message: String, offendingNumber: double); Description

Initializes a new instance of the **System.NotFiniteNumberException** class with a specified error message and the invalid number.

The following table shows the initial property values for an instance of System.NotFiniteNumberException. The error message that explains the reason for the exception. The invalid number.

NotFiniteNumberException

Example Syntax:

ToString

[C#] public NotFiniteNumberException(string message, double offendingNumber, Exception innerException);

[C++] public: NotFiniteNumberException(String* message, double offendingNumber, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal offendingNumber As Double, ByVal innerException As Exception)

[JScript] public function NotFiniteNumberException(message : String, offendingNumber : double, innerException : Exception);

Description

Initializes a new instance of the **System.NotFiniteNumberException** class with a specified error message, the invalid number, and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. The

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invalid number. An instance of System. Exception that is the cause of the current Exception. If innerException is non-null, then the current Exception is raised in a catch block handling innerException. HelpLink **HResult** InnerException Message OffendingNumber **ToString** Description Gets the invalid number that is a positive infinity, a negative infinity, or Not-a-Number (NaN). Source StackTrace TargetSite GetObjectData [C#] public override void GetObjectData(SerializationInfo info, StreamingContext context); [C++] public: void GetObjectData(SerializationInfo* info, StreamingContext context); [VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] public override function GetObjectData(info : SerializationInfo, context : StreamingContext);

Description

Sets the **System.Runtime.Serialization.SerializationInfo** object with the invalid number and additional exception information.

System.TypeLoadException.GetObjectData(System.Runtime.Serialization.SerializationInfo,System.Runtime.Serialization.StreamingContext) sets a System.Runtime.Serialization.SerializationInfo with all the exception object data targeted for serialization. During deserialization, the exception object is reconstituted from the System.Runtime.Serialization.SerializationInfo transmitted over the stream. The object that holds the serialized object data. The contextual information about the source or destination.

NotImplementedException class (System)

ToString

Description

The exception that is thrown when a requested method or operation is not implemented.

System.NotImplementedException uses the default

System.Object.Equals(System.Object) implementation, which supports reference equality. For a list of initial values for an instance of
System.NotImplementedException, see the
System.NotImplementedException.#ctor constructors.

1	NotImplementedException
2	Example Syntax:
3	ToString
4	
5	[C#] public NotImplementedException();
6	[C++] public: NotImplementedException();
7	[VB] Public Sub New()
8	[JScript] public function NotImplementedException(); Initializes a new instance of
9	the System.NotImplementedException class.
10	
11	Description
12	Initializes a new instance of the System.NotImplementedException class
13	with default properties.
14	The following table shows the initial property values for an instance of
15	System.NotImplementedException .
16	NotImplementedException
17	Example Syntax:
18	ToString
19	
20	[C#] public NotImplementedException(string message);
21	[C++] public: NotImplementedException(String* message);
22	[VB] Public Sub New(ByVal message As String)
23	[JScript] public function NotImplementedException(message : String);
24	
25	Description

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Initializes a new instance of the **System.NotImplementedException** class with a specified error message.

The following table shows the initial property values for an instance of **System.NotImplementedException**. The error message that explains the reason for the exception.

NotImplementedException

Example Syntax:

ToString

[C#] protected NotImplementedException(SerializationInfo info,

StreamingContext context);

 $[C++]\ protected:\ NotImplemented Exception (Serialization Info*\ info,$

StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As

StreamingContext)

 $[JScript]\ protected\ function\ NotImplemented Exception (info: SerializationInfo,$

context : StreamingContext);

Description

Initializes a new instance of the **System.NotImplementedException** class with serialized data. The object that holds the serialized object data. The contextual information about the source or destination.

NotImplementedException

Example Syntax:

ToString

[C#] public NotImplementedException(string message, Exception inner);
[C++] public: NotImplementedException(String* message, Exception* inner);
[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
[JScript] public function NotImplementedException(message: String, inner: Exception);

Description

Initializes a new instance of the **System.NotImplementedException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the $\mathbf{System.Exception.InnerException}$ property of X should contain a reference to Y. The $\mathbf{InnerException}$ property returns the same value as was passed into the constructor, or \mathbf{null} if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of $\mathbf{System.Exception}$ that is the cause of the current $\mathbf{Exception}$. If inner is non-null, then the current $\mathbf{Exception}$ is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

NotSupportedException class (System) **ToString** 2 3 Description 5 The exception that is thrown when an invoked method is not supported, or 6 when there is an attempt to read, seek, or write to a stream that does not support 7 the invoked functionality. 8 There are methods that are not supported in the base class, with the 9 expectation that these methods will be implemented in the derived classes instead. 10 The derived class might implement only a subset of the methods from the base 11 class, and throw System.NotSupportedException for the unsupported methods. 12 NotSupportedException 13 Example Syntax: 14 **ToString** 15 16 [C#] public NotSupportedException(); 17 [C++] public: NotSupportedException(); 18 [VB] Public Sub New() 19 [JScript] public function NotSupportedException(); Initializes a new instance of 20 the System.NotSupportedException class. 21 22 Description 23 Initializes a new instance of the System.NotSupportedException class 24

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with default properties.

1	The following table shows the initial property values for an instance of
2	System.NotSupportedException .
3	NotSupportedException
4	Example Syntax:
5	ToString
6	
7	[C#] public NotSupportedException(string message);
8	[C++] public: NotSupportedException(String* message);
9	[VB] Public Sub New(ByVal message As String)
10	[JScript] public function NotSupportedException(message : String);
11	
12	Description
13	Initializes a new instance of the System.NotSupportedException class
14	with a specified error message.
15	The following table shows the initial property values for an instance of
16	System.NotSupportedException. The error message that explains the reason for
17	the exception.
18	NotSupportedException
19	Example Syntax:
20	ToString
21	
22	[C#] protected NotSupportedException(SerializationInfo info, StreamingContext
23	context);
24	[C++] protected: NotSupportedException(SerializationInfo* info,
25	StreamingContext context);

1	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
2	StreamingContext)
3	[JScript] protected function NotSupportedException(info: SerializationInfo,
4	context: StreamingContext);
5	
6	Description
7	Initializes a new instance of the System.NotSupportedException class
8	with serialized data.
9	This constructor is called during deserialization to reconstitute the
10	exception object transmitted over a stream. For more information, see . The object
11	that holds the serialized object data. The contextual information about the source
12	or destination.
13	NotSupportedException
14	Example Syntax:
15	ToString
16	
17	[C#] public NotSupportedException(string message, Exception innerException);
18	[C++] public: NotSupportedException(String* message, Exception*
19	innerException);
20	[VB] Public Sub New(ByVal message As String, ByVal innerException As
21	Exception)
22	[JScript] public function NotSupportedException(message : String,
23	innerException : Exception);
24	
25	Description

Initializes a new instance of the **System.NotSupportedException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

NullReferenceException class (System)

ToString

Description

The exception that is thrown when there is an attempt to dereference a null object reference.

1	System.NullReferenceException uses the HRESULT
2	COR_E_NULLREFERENCE, which has the value 0x80004003.
3	NullReferenceException
4	Example Syntax:
5	ToString
6	
7	[C#] public NullReferenceException();
8	[C++] public: NullReferenceException();
9	[VB] Public Sub New()
10	[JScript] public function NullReferenceException(); Initializes a new instance of
11	the System.NullReferenceException class.
12	
13	Description
14	Initializes a new instance of the System.NullReferenceException class
15	with default properties.
16	The following table shows the initial property values for an instance of
17	System.NullReferenceException .
18	NullReferenceException
19	Example Syntax:
20	ToString
21	
22	[C#] public NullReferenceException(string message);
23	[C++] public: NullReferenceException(String* message);
24	[VB] Public Sub New(ByVal message As String)
25	[JScript] public function NullReferenceException(message : String);

Description

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Initializes a new instance of the **System.NullReferenceException** class with a specified error message.

The following table shows the initial property values for an instance of **System.NullReferenceException**. The error message that explains the reason for the exception.

NullReferenceException

Example Syntax:

ToString

[C#] protected NullReferenceException(SerializationInfo info, StreamingContext context);

[C++] protected: NullReferenceException(SerializationInfo* info,

StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function NullReferenceException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.NullReferenceException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object

that holds the serialized object data. The contextual information about the source or destination.

NullReferenceException

Example Syntax:

ToString

[C#] public NullReferenceException(string message, Exception innerException); [C++] public: NullReferenceException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function NullReferenceException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.NullReferenceException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If

1	innerException is non-null, then the current Exception is raised in a catch block
2	handling innerException.
3	HelpLink
4	HResult
5	InnerException
6	Message
7	Source
8	StackTrace
9	TargetSite
10	Object class (System)
11	ToString
12	
13	
14	Description
15	Supports all classes in the .NET Framework class hierarchy and provides
16	low-level services to derived classes. This is the ultimate superclass of all classes
17	in the .NET Framework; it is the root of the type hierarchy.
18	Languages typically do not require a class to declare inheritance from
19	System.Object because the inheritance is implicit.
20	Object
21	Example Syntax:
22	ToString
23	
24	[C#] public Object();
25	[C++] public: Object();

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[VB] Public Sub New()

[JScript] public function Object();

Description

Initializes a new instance of the System.Object class.

This constructor is called by constructors in derived classes, but it can also be used to directly create an instance of the **System.Object** class.

Equals

[C#] public virtual bool Equals(object obj);

[C++] public: virtual bool Equals(Object* obj);

[VB] Overridable Public Function Equals(ByVal obj As Object) As Boolean [JScript] public function Equals(obj : Object) : Boolean; Determines whether two

System.Object instances are equal.

Description

Determines whether the specified **System.Object** is equal to the current **System.Object**.

Return Value: true if the specified System.Object is equal to the current System.Object; otherwise, false.

The default implementation of **System.Object.Equals(System.Object)** supports reference equality only, but derived classes can override this method to support value equality. The **System.Object** to compare with the current **System.Object**.

Equals

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1	
2	[C#] public static bool Equals(object objA, object objB);
3	[C++] public: static bool Equals(Object* objA, Object* objB);
4	[VB] Public Shared Function Equals(ByVal objA As Object, ByVal objB As
5	Object) As Boolean
6	[JScript] public static function Equals(objA : Object, objB : Object) : Boolean;
7	
8	Description
9	Determines whether the specified System.Object instances are considered
10	equal.
11	Return Value: $true$ if $objA$ is the same instance as $objB$ or if both are null
12	references or if objA.Equals(objB) returns true; otherwise, false.
13	The default implementation of System.Object.Equals(System.Object)
14	supports reference equality only, but derived classes can override this method to
15	support value equality. The first System.Object to compare. The second
16	System.Object to compare.
17	Finalize
18	
19	[C#] ~Object();
20	[C++] ~Object();
21	[VB] Overrides Protected Sub Finalize()
22	[JScript] protected override function Finalize();
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24	Description
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Allows an **System.Object** to attempt to free resources and perform other cleanup operations before the **System.Object** is reclaimed by garbage collection.

System.Object.Finalize is protected and, therefore, is accessible only through this class or a derived class.

GetHashCode

[C#] public virtual int GetHashCode();

[C++] public: virtual int GetHashCode();

[VB] Overridable Public Function GetHashCode() As Integer

[JScript] public function GetHashCode(): int;

Description

Serves as a hash function for a particular type, suitable for use in hashing algorithms and data structures like a hash table.

Return Value: A hash code for the current System.Object.

This method can be overridden by a derived class. Value classes must override this method to provide a hash function that is appropriate for the class and that ensures a better distribution in the hash table. Classes that might be used as a key in a hash table must also override this method, because objects that are used as keys in a hash table are required to generate their own hash code through this method.

GetType

[C#] public Type GetType();

[C++] public: Type* GetType();

1	[VB] Public Function GetType() As Type
2	[JScript] public function GetType(): Type;
3	
4	Description
5	Gets the System. Type of the current instance.
6	Return Value: The System. Type instance that represents the exact runtime type of
7	the current instance.
8	For two objects x and y that have identical runtime types,
9	Object.ReferenceEquals(x.GetType(),y.GetType()) returns true .
10	MemberwiseClone
11	
12	[C#] protected object MemberwiseClone();
13	[C++] protected: Object* MemberwiseClone();
14	[VB] Protected Function MemberwiseClone() As Object
15	[JScript] protected function MemberwiseClone() : Object;
16	
17	Description
18	Creates a shallow copy of the current System.Object .
19	Return Value: A shallow copy of the current System.Object.
20	This method cannot be overridden; a derived class should implement the
21	System.ICloneable interface if a shallow copy is not appropriate.
22	ReferenceEquals
23	
24	[C#] public static bool ReferenceEquals(object objA, object objB);
25	[C++] public: static bool ReferenceEquals(Object* objA, Object* objB);

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[VB] Public Shared Function ReferenceEquals(ByVal objA As Object, ByVal obiB As Object) As Boolean [JScript] public static function ReferenceEquals(objA : Object, objB : Object) : Boolean; Description Determines whether the specified System.Object instances are the same instance. Return Value: true if objA is the same instance as objB or if both are null references; otherwise, false. The first System.Object to compare. The second System.Object to compare. **ToString** [C#] public virtual string ToString(); [C++] public: virtual String* ToString(); [VB] Overridable Public Function ToString() As String [JScript] public function ToString(): String;

Description

Returns a **System.String** that represents the current **System.Object** .

Return Value: A **System.String** that represents the current **System.Object** .

This method returns a human-readable string that is culture-sensitive. For example, for an instance of the **System.Double** class whose value is zero, the implementation of **System.Double.ToString** might return "0.00" or "0,00" depending on the current UI culture.

1	ObjectDisposedException class (System)
2	ToString
3	ObjectDisposedException
4	Example Syntax:
5	ToString
6	System.ObjectDisposedException
7	ObjectDisposedException
8	Example Syntax:
9	ToString
10	ObjectDisposedException
11	Example Syntax:
12	ToString
13	System.ObjectDisposedException
14	HelpLink
15	HResult
16	InnerException
17	Message
18	ToString
19	ObjectName
20	ToString
21	Source
22	StackTrace
23	TargetSite
24	ObsoleteAttribute class (System)
25	ToString

Description

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Marks the program elements that are no longer in use. This class cannot be inherited.

System.ObsoleteAttribute is applicable to all program elements except assemblies, modules, parameters or return values. Marking an element as obsolete informs the users that the element will be removed in future versions of the product or that the functionality provided by the element is made internal to your application.

ObsoleteAttribute

Example Syntax:

ToString

[C#] public ObsoleteAttribute();

[C++] public: ObsoleteAttribute();

[VB] Public Sub New()

[JScript] public function ObsoleteAttribute(); Initializes a new instance of the **System.ObsoleteAttribute** class.

Description

Initializes a new instance of the **System.ObsoleteAttribute** class with default properties.

The following table shows the initial property values for an instance of **System.ObsoleteAttribute**.

ObsoleteAttribute Example Syntax: 2 **ToString** 3 [C#] public ObsoleteAttribute(string message); 5 [C++] public: ObsoleteAttribute(String* message); 6 [VB] Public Sub New(ByVal message As String) 7 [JScript] public function ObsoleteAttribute(message : String); 8 9 Description 10 Initializes a new instance of the System.ObsoleteAttribute class with a 11 specified workaround message. 12 The following table shows the initial property values for an instance of 13 System.ObsoleteAttribute. The text string that describes alternative 14 workarounds. 15 **ObsoleteAttribute** 16 Example Syntax: 17 **ToString** 18 19 [C#] public ObsoleteAttribute(string message, bool error); 20 [C++] public: ObsoleteAttribute(String* message, bool error); 21 [VB] Public Sub New(ByVal message As String, ByVal error As Boolean) 22 [JScript] public function ObsoleteAttribute(message : String, error : Boolean); 23 24 Description

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Initializes a new instance of the **System.ObsoleteAttribute** class with a workaround message and a Boolean value indicating whether the obsolete element usage is considered an error.

The following table shows the initial property values for an instance of **System.ObsoleteAttribute**. The text string that describes alternative workarounds. The Boolean value that indicates whether the obsolete element usage is considered an error.

IsError

ToString

[C#] public bool IsError {get;}

[C++] public: property bool get_IsError();

[VB] Public ReadOnly Property IsError As Boolean

[JScript] public function get IsError(): Boolean;

Description

Gets a Boolean value indicating whether the compiler will treat usage of the obsolete program element as an error.

Message

ToString

[C#] public string Message {get;}

[C++] public: __property String* get_Message();

[VB] Public ReadOnly Property Message As String

[JScript] public function get Message(): String;

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Description 2 Gets the workaround message, including a description of the alternative 3 program elements. TypeId 5 OperatingSystem class (System) **ToString** 7 Description 10 Represents information about an operating system, such as the version and 11 platform identifier. 12 This class provides a method to copy an instance of OperatingSystem, 13 and a method to return a string representation of operating system information. 14 **OperatingSystem** 15 Example Syntax: 16 **ToString** 17 18 [C#] public OperatingSystem(PlatformID platform, Version version); 19 [C++] public: OperatingSystem(PlatformID platform, Version* version); 20 [VB] Public Sub New(ByVal platform As PlatformID, ByVal version As Version) 21 [JScript] public function OperatingSystem(platform: PlatformID, version: 22 Version); 23 24 Description

1	Initializes a new instance of the OperatingSystem class, using the
2	specified platform identifier value and version object. A System.PlatformID
3	enumerated constant that indicates the operating system platform. A
4	System. Version object that indicates the version of the operating system.
5	Platform
6	ToString
7	
8	[C#] public PlatformID Platform {get;}
9	[C++] public:property PlatformID get_Platform();
10	[VB] Public ReadOnly Property Platform As PlatformID
11	[JScript] public function get Platform(): PlatformID;
12	
13	Description
14	Gets a PlatformID value that identifies this operating system platform.
15	Version
16	ToString
17	
18	[C#] public Version Version {get;}
19	[C++] public:property Version* get_Version();
20	[VB] Public ReadOnly Property Version As Version
21	[JScript] public function get Version(): Version;
22	
23	Description
24	Gets a Version object that identifies this operating system.
25	Clone

[C#] public object Clone(); [C++] public: sealed Object* Clone(); 3 [VB] NotOverridable Public Function Clone() As Object [JScript] public function Clone(): Object; 5 6 Description 7 Returns an OperatingSystem object that is identical to this instance. 8 Return Value: An OperatingSystem object that is a copy of this instance. 9 **ToString** 10 11 [C#] public override string ToString(); 12 [C++] public: String* ToString(); 13 [VB] Overrides Public Function ToString() As String 14 [JScript] public override function ToString(): String; 15 16 Description 17 Converts the value of this instance to its equivalent String representation. 18 Return Value: The format of the return value is: platform 19 majorVersion.minorVersion.build.revision For example, if the operating sysem is 20 Windows 2000, the return value is: "Microsoft Windows NT 5.0.0.2195". 21 OutOfMemoryException class (System) 22 **ToString** 23 24

2 Description 3 The exception that is thrown when there is not enough memory to continue the execution of a program. 5 System.OutOfMemoryException uses the HRESULT 6 COR E OUTOFMEMORY, which has the value 0x8007000E. 7 OutOfMemoryException 8 Example Syntax: **ToString** 10 11 [C#] public OutOfMemoryException(); 12 [C++] public: OutOfMemoryException(); 13 [VB] Public Sub New() 14 [JScript] public function OutOfMemoryException(); Initializes a new instance of 15 the System.OutOfMemoryException class. 16 17 Description 18 Initializes a new instance of the System.OutOfMemoryException class 19 with default properties. 20 The following table shows the initial property values for an instance of 21 System.OutOfMemoryException . 22 OutOfMemoryException 23 Example Syntax: 24 **ToString** 25

1	
2	[C#] public OutOfMemoryException(string message);
3	[C++] public: OutOfMemoryException(String* message);
4	[VB] Public Sub New(ByVal message As String)
5	[JScript] public function OutOfMemoryException(message : String);
6	
7	Description
8	Initializes a new instance of the System.OutOfMemoryException class
9	with a specified error message.
10	The following table shows the initial property values for an instance of
11	System.OutOfMemoryException . The error message that explains the reason
12	for the exception.
13	OutOfMemoryException
14	Example Syntax:
15	ToString
16	
17	[C#] protected OutOfMemoryException(SerializationInfo info, StreamingContext
18	context);
19	[C++] protected: OutOfMemoryException(SerializationInfo* info,
20	StreamingContext context);
21	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
22	StreamingContext)
23	[JScript] protected function OutOfMemoryException(info : SerializationInfo,
24	context : StreamingContext);
25	

Description
Initia

Initializes a new instance of the **System.OutOfMemoryException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

OutOfMemoryException

Example Syntax:

ToString

[C#] public OutOfMemoryException(string message, Exception innerException); [C++] public: OutOfMemoryException(String* message, Exception* innerException);

[VB] Public Sub New(ByVal message As String, ByVal innerException As Exception)

[JScript] public function OutOfMemoryException(message : String, innerException : Exception);

Description

Initializes a new instance of the **System.OutOfMemoryException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

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When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner Exception is non-null, then the current Exception is raised in a catch block handling inner Exception.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

OverflowException class (System)

ToString

Description

The exception that is thrown when an arithmetic, casting, or conversion operation in a checked context results in an overflow.

For a result from an integral or decimal-type arithmetic operation or conversion that is outside the range of the destination type: In a checked context, a

compile-time error occurs if the operation is a constant expression. Otherwise, an System.OverflowException is thrown if the operation is performed at run-time. 2 OverflowException 3 Example Syntax: **ToString** 5 6 [C#] public OverflowException(); 7 [C++] public: OverflowException(); 8 [VB] Public Sub New() 9 [JScript] public function OverflowException(); Initializes a new instance of the 10 System.OverflowException class. 11 12 Description 13 Initializes a new instance of the System.OverflowException class with 14 default properties. 15 The following table shows the initial property values for an instance of 16 System.OverflowException. 17 OverflowException 18 Example Syntax: 19 **ToString** 20 21 [C#] public OverflowException(string message); 22 [C++] public: OverflowException(String* message); 23 [VB] Public Sub New(ByVal message As String) [JScript] public function OverflowException(message : String);

Description

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Initializes a new instance of the **System.OverflowException** class with a specified error message.

The following table shows the initial property values for an instance of **System.OverflowException**. The error message that explains the reason for the exception.

OverflowException

Example Syntax:

ToString

[C#] protected OverflowException(SerializationInfo info, StreamingContext context);

[C++] protected: OverflowException(SerializationInfo* info, StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function OverflowException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.OverflowException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object

that holds the serialized object data. The contextual information about the source or destination.

OverflowException

Example Syntax:

ToString

[C#] public OverflowException(string message, Exception innerException);
[C++] public: OverflowException(String* message, Exception* innerException);
[VB] Public Sub New(ByVal message As String, ByVal innerException As
Exception)
[JScript] public function OverflowException(message: String, innerException:

Description

Exception);

Initializes a new instance of the **System.OverflowException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

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HelpLink **HResult** 2 InnerException 3 Message Source 5 StackTrace TargetSite 7 ParamArrayAttribute class (System) 8 **ToString** 10 11 Description 12 Indicates that the method will allow a variable number of arguments in its 13 invocation. This class cannot be inherited. 14 A parameter array allows the specification of an unknown number of 15 arguments. A parameter array must be the last parameter in a formal parameter 16 list, and it must be a single-dimension array. A parameter array permits arguments 17 to a method to be specified in two ways: A single expression of a type that is 18 implicitly convertible to the parameter array type. The parameter array functions 19

as a value parameter.

ParamArrayAttribute

Example Syntax:

ToString

[C#] public ParamArrayAttribute();

1	[C++] public: ParamArrayAttribute();
2	[VB] Public Sub New()
3	[JScript] public function ParamArrayAttribute();
4	
5	Description
6	Initializes a new instance of the System.ParamArrayAttribute class with
7	default properties.
8	TypeId
9	PlatformID enumeration (System)
10	ToString
11	
12	
13	Description
14	Describes the platforms supported by an assembly.
15	These flags are used to bind to an assembly.
16	ToString
17	
18	[C#] public const PlatformID Win32NT;
19	[C++] public: const PlatformID Win32NT;
20	[VB] Public Const Win32NT As PlatformID
21	[JScript] public var Win32NT : PlatformID;
22	
23	Description
24	The operating system is Windows NT or later.
25	ToString

1	
2	[C#] public const PlatformID Win32S;
3	[C++] public: const PlatformID Win32S;
4	[VB] Public Const Win32S As PlatformID
5	[JScript] public var Win32S: PlatformID;
6	
7	Description
8	The operating system is Win32s. Win32s is a layer that runs on 16-bit
9	versions of Windows to provide access to 32-bit applications.
10	ToString
11	
12	[C#] public const PlatformID Win32Windows;
13	[C++] public: const PlatformID Win32Windows;
14	[VB] Public Const Win32Windows As PlatformID
15	[JScript] public var Win32Windows: PlatformID;
16	
17	Description
18	The operating system is Windows 95 or later.
19	PlatformNotSupportedException class (System)
20	ToString
21	
22	
23	Description
24	The exception that is thrown when a feature does not run on a particular
25	platform.

1	PlatformNotSupportedException uses the HRESULT
2	COR_E_PLATFORMNOTSUPPORTED, which has the value 0x80131539.
3	PlatformNotSupportedException
4	Example Syntax:
5	ToString
6	
7	[C#] public PlatformNotSupportedException();
8	[C++] public: PlatformNotSupportedException();
9	[VB] Public Sub New()
10	[JScript] public function PlatformNotSupportedException(); Initializes a new
11	instance of the System.PlatformNotSupportedException class.
12	
13	Description
14	Initializes a new instance of the System.PlatformNotSupportedException
15	class with default properties.
16	When an instance of the System.PlatformNotSupportedException class
17	is created by a call to this constructor, the following properties are initialized to
18	the specified values: Property Value System. Exception. Inner Exception null.
19	PlatformNotSupportedException
20	Example Syntax:
21	ToString
22	
23	[C#] public PlatformNotSupportedException(string message);
24	[C++] public: PlatformNotSupportedException(String* message);
25	[VB] Public Sub New(ByVal message As String)

[JScript] public function PlatformNotSupportedException(message: String); 2 Description 3 Initializes a new instance of the System.PlatformNotSupportedException class with a specified error message. 5 When an instance of the System.PlatformNotSupportedException class 6 is created by a call to this constructor, the following properties are initialized to 7 the specified values: Property Value System. Exception. Inner Exception null. The 8 text message that explains the reason for the exception. 9 PlatformNotSupportedException 10 Example Syntax: 11 **ToString** 12 13 [C#] protected PlatformNotSupportedException(SerializationInfo info, 14 StreamingContext context); 15 $[C++]\ protected:\ PlatformNotSupportedException(SerializationInfo*\ info,$ 16 StreamingContext context); 17 [VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As 18 StreamingContext) 19 [JScript] protected function PlatformNotSupportedException(info: 20 SerializationInfo, context: StreamingContext); 21 22 Description 23 Initializes a new instance of the System.PlatformNotSupportedException 24 class with serialized data. The System.Runtime.Serialization.SerializationInfo 25

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that holds the serialized object data about the exception being thrown. The System.Runtime.Serialization.StreamingContext that contains contextual information about the source or destination.

PlatformNotSupportedException

Example Syntax:

ToString

[C#] public PlatformNotSupportedException(string message, Exception inner); [C++] public: PlatformNotSupportedException(String* message, Exception* inner);

[VB] Public Sub New(ByVal message As String, ByVal inner As Exception) [JScript] public function PlatformNotSupportedException(message : String, inner : Exception);

Description

Initializes a new instance of the System.PlatformNotSupportedException class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The InnerException property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The text message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If the

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inner parameter is non-null, then the current Exception is raised in a catch block handling inner. HelpLink **HResult** InnerException Message Source StackTrace TargetSite Random class (System) **ToString** Description Represents a pseudo-random number generator, a device that produces a sequence of numbers that meet certain statistical requirements for randomness. Pseudo-random numbers are chosen with equal probability from a finite set of numbers. The chosen numbers are not completely random because a definite mathematical algorithm is used to select them, but they are sufficiently random for practical purposes. Random Example Syntax: **ToString**

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[C#] public Random();

[C++] public: Random(); [VB] Public Sub New() 2 [JScript] public function Random(); Initializes a new instance of the Random 3 class. 5 Description 6 Initializes a new instance of the Random class, using a time-dependent 7 default seed value. 8 The distribution of the generated numbers is uniform; each number is 9 equally likely to be returned. 10 Random 11 Example Syntax: 12 **ToString** 13 14 [C#] public Random(int Seed); 15 [C++] public: Random(int Seed); 16 [VB] Public Sub New(ByVal Seed As Integer) 17 [JScript] public function Random(Seed: int); 18 19 Description 20 Initializes a new instance of the Random class, using the specified seed 21 value. 22 If your application requires different random number sequences, invoke this 23 constructor repeatedly with different seed values. One way to produce a unique 24

seed value is to make it time-dependent. For example, derive the seed value from

the system clock. A number used to calculate a starting value for the pseudorandom number sequence. 2 Next 3 [C#] public virtual int Next(); 5 [C++] public: virtual int Next(); 6 [VB] Overridable Public Function Next() As Integer 7 [JScript] public function Next(): int; Returns a random number. 8 9 Description 10 Returns a positive random number. 11 Return Value: A number greater than or equal to zero and less than 12 System.Int32.MaxValue. 13 Next 14 15 [C#] public virtual int Next(int maxValue); 16 [C++] public: virtual int Next(int maxValue); 17 [VB] Overridable Public Function Next(ByVal maxValue As Integer) As Integer 18 [JScript] public function Next(maxValue : int) : int; 19 20 Description 21 Returns a positive random number less than the specified maximum. 22 Return Value: A number greater than or equal to zero, and less than maxValue. 23 The upper bound of the random number to be generated. 24 Next 25

1	
2	[C#] public virtual int Next(int minValue, int maxValue);
3	[C++] public: virtual int Next(int minValue, int maxValue);
4	[VB] Overridable Public Function Next(ByVal minValue As Integer, ByVal
5	maxValue As Integer) As Integer
6	[JScript] public function Next(minValue : int, maxValue : int) : int;
7	
8	Description
9	Returns a random number within a specified range.
10	Return Value: A number greater than or equal to minValue and less than maxValue
11	. If minValue equals maxValue, minValue is returned. The lower bound of the
12	random number returned. The upper bound of the random number returned.
13	NextBytes
14	
15	[C#] public virtual void NextBytes(byte[] buffer);
16	[C++] public: virtual void NextBytes(unsigned char buffergc[]);
17	[VB] Overridable Public Sub NextBytes(ByVal buffer() As Byte)
18	[JScript] public function NextBytes(buffer : Byte[]);
19	
20	Description
21	Fills the elements of a specified array of bytes with random numbers.
22	Each element of the array of bytes is set to a random number greater than or
23	equal to zero, and less than or equal to System.Byte.MaxValue . An array of
24	bytes to contain random numbers.

NextDouble

1	
2	[C#] public virtual double NextDouble();
3	[C++] public: virtual double NextDouble();
4	[VB] Overridable Public Function NextDouble() As Double
5	[JScript] public function NextDouble() : double;
6	
7	Description
8	Returns a random number between 0.0 and 1.0.
9	Return Value: A double-precision floating point number greater than or equal to
10	0.0, and less than 1.0.
11	This method is the public version of the protected method,
12	System.Random.Sample.
13	Sample
14	
15	[C#] protected virtual double Sample();
16	[C++] protected: virtual double Sample();
17	[VB] Overridable Protected Function Sample() As Double
18	[JScript] protected function Sample() : double;
19	
20	Description
21	Returns a random number between 0.0 and 1.0.
22	Return Value: A double-precision floating point number greater than or equal to
23	0.0, and less than 1.0.
24	Create a derived class of Random to override this method and produce a
25	different distribution.

RankException class (System) **ToString** 2 3 Description 5 The exception that is thrown when an array with the wrong number of 6 dimensions is passed to a method. 7 System.RankException uses the HRESULT COR_E_RANK, which has 8 the value 0x80131517. RankException 10 Example Syntax: 11 **ToString** 12 13 [C#] public RankException(); 14 [C++] public: RankException(); 15 [VB] Public Sub New() 16 [JScript] public function RankException(); Initializes a new instance of the 17 System.RankException class. 18 19 Description 20 Initializes a new instance of the System.RankException class with default 21 properties. 22 The following table shows the initial property values for an instance of 23 System.RankException. 24 RankException 25

1	Example Syntax:
2	ToString
3	
4	[C#] public RankException(string message);
5	[C++] public: RankException(String* message);
6	[VB] Public Sub New(ByVal message As String)
7	[JScript] public function RankException(message : String);
8	
9	Description
10	Initializes a new instance of the System.RankException class with a
11	specified error message.
12	The following table shows the initial property values for an instance of
13	System.RankException. The error message that explains the reason for the
14	exception.
15	RankException
16	Example Syntax:
17	ToString
18	
19	[C#] protected RankException(SerializationInfo info, StreamingContext context);
20	[C++] protected: RankException(SerializationInfo* info, StreamingContext
21	context);
22	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
23	StreamingContext)
24	[JScript] protected function RankException(info : SerializationInfo, context :
25	StreamingContext);

Description

Initializes a new instance of the **System.RankException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

RankException

Example Syntax:

ToString

[C#] public RankException(string message, Exception innerException);[C++] public: RankException(String* message, Exception* innerException);[VB] Public Sub New(ByVal message As String, ByVal innerException As

[JScript] public function RankException(message : String, innerException : Exception);

Description

Exception)

Initializes a new instance of the **System.RankException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an $\mathbf{Exception}X$ is thrown as a direct result of a previous exception Y, the $\mathbf{System.Exception.InnerException}$ property of X should contain a reference

to Y . The InnerException property returns the same value as was passed into the
constructor, or null if the inner exception value was not supplied to the
constructor. The error message that explains the reason for the exception. An
instance of System. Exception that is the cause of the current Exception. If
innerException is non-null, then the current Exception is raised in a catch block
handling innerException.
HelpLink
HResult
InnerException
Message
Source
StackTrace
TargetSite
ResolveEventArgs class (System)
ToString
Description
Provides data for the System.AppDomain.TypeResolve,
System.AppDomain.ResourceResolve, and
System.AppDomain.AssemblyResolve events.
ResolveEventArgs
Example Syntax:
ToString

```
1
    [C#] public ResolveEventArgs(string name);
2
    [C++] public: ResolveEventArgs(String* name);
3
    [VB] Public Sub New(ByVal name As String)
    [JScript] public function ResolveEventArgs(name : String);
5
6
    Description
          Initializes a new instance of the ResolveEventArgs class.
8
           This constructor is typically only called by the common language runtime.
9
    The name of an item to resolve.
10
           Name
11
           ToString
12
13
    [C#] public string Name {get;}
14
    [C++] public: property String* get_Name();
15
    [VB] Public ReadOnly Property Name As String
16
    [JScript] public function get Name(): String;
17
18
    Description
19
           The name of the item to be resolved.
20
           ResolveEventHandler delegate (System)
21
           ToString
22
23
24
    Description
```

Represents the method that will handle the 1 ${\bf System. App Domain. Type Resolve}\ ,\ {\bf System. App Domain. Resource Resolve}\ ,\ {\bf and}$ 2 System.AppDomain.AssemblyResolve events of an System.AppDomain . The 3 source of the event. A System.ResolveEventArgs that contains the event data. 4 If the runtime class loader cannot resolve a reference to an assembly, type 5 or a resource through normal means, the corresponding events are raised to give 6 the callback a chance to tell the runtime which assembly the referenced assembly, type or resource is in. 8 RuntimeArgumentHandle structure (System) 9 ToString 10 11 12 Description 13 References a variable-length argument list. 14 This class has no members, and exists solely to support C/C++ 15 programming language functions that take a variable number of parameters. 16 RuntimeFieldHandle structure (System) 17 **ToString** 18 19 20 Description 21 The RuntimeFieldHandle is a handle to the internal metadata representation 22 of a field. 23

24

25

Value

ToString

```
1
   [C#] public IntPtr Value {get;}
2
   [C++] public: __property IntPtr get_Value();
3
    [VB] Public ReadOnly Property Value As IntPtr
4
    [JScript] public function get Value(): IntPtr;
5
6
    Description
7
           The value of the handle.
8
           GetObjectData
9
10
    [C#] public void GetObjectData(SerializationInfo info, StreamingContext
11
    context);
12
    [C++] public: __sealed void GetObjectData(SerializationInfo* info,
13
    StreamingContext context);
14
    [VB] NotOverridable Public Sub GetObjectData(ByVal info As SerializationInfo,
15
    ByVal context As StreamingContext)
    [JScript] public function GetObjectData(info : SerializationInfo, context :
17
    StreamingContext);
18
19
    Description
20
           Returns a SerializationInfo completely populated with all the data needed to
21
    reinstantiate the object at the other end of serialization. The object to be populated
22
     with serialization information. The destination context of the serialization.
23
            RuntimeMethodHandle structure (System)
24
            ToString
25
```

II	
1	
2	
3	Description
4	The RuntimeMethodHandle is a handle to the internal metadata
5	representation of a method.
6	Value
7	ToString
8	
9	[C#] public IntPtr Value {get;}
10	[C++] public:property IntPtr get_Value();
11	[VB] Public ReadOnly Property Value As IntPtr
12	[JScript] public function get Value() : IntPtr;
13	
14	Description
15	The value of the handle.
16	GetFunctionPointer
17	
18	[C#] public IntPtr GetFunctionPointer();
19	[C++] public: IntPtr GetFunctionPointer();
20	[VB] Public Function GetFunctionPointer() As IntPtr
21	[JScript] public function GetFunctionPointer() : IntPtr;
22	GetObjectData
23	
24	[C#] public void GetObjectData(SerializationInfo info, StreamingContext
25	context);
	11

```
[C++] public: __sealed void GetObjectData(SerializationInfo* info,
1
    StreamingContext context);
2
    [VB] NotOverridable Public Sub GetObjectData(ByVal info As SerializationInfo,
3
    ByVal context As StreamingContext)
4
    [JScript] public function GetObjectData(info: SerializationInfo, context:
5
    StreamingContext);
6
7
    Description
8
           Returns a SerializationInfo completely populated with all the data needed to
9
    reinstantiate the object at the other end of serialization. The object to be populated
10
    with serialization information. The destination context of the serialization.
11
           RuntimeTypeHandle structure (System)
12
           ToString
13
14
15
    Description
16
           The RuntimeTypeHandle is a handle to the internal metadata representation
17
    of a type.
           Value
19
           ToString
20
21
     [C#] public IntPtr Value {get;}
22
     [C++] public: property IntPtr get_Value();
23
     [VB] Public ReadOnly Property Value As IntPtr
24
     [JScript] public function get Value(): IntPtr;
25
```

1	
2	Description
3	The value of the handle.
4	GetObjectData
5	
6	[C#] public void GetObjectData(SerializationInfo info, StreamingContext
7	context);
8	[C++] public:sealed void GetObjectData(SerializationInfo* info,
9	StreamingContext context);
10	[VB] NotOverridable Public Sub GetObjectData(ByVal info As SerializationInfo,
11	ByVal context As StreamingContext)
12	[JScript] public function GetObjectData(info : SerializationInfo, context :
13	StreamingContext);
14	
15	Description
16	Returns a SerializationInfo completely populated with all the data needed to
17	reinstantiate the object at the other end of serialization. The object to be populated
18	with serialization information. The destination context of the serialization.
19	SByte structure (System)
20	ToString
21	
22	
23	Description
24	Represents an 8-bit signed integer.
25	

1	The SByte value type represents integers with values ranging from negative
2	128 to positive 127.
3	ToString
4	
5	[C#] public const sbyte MaxValue;
6	[C++] public: const char MaxValue;
7	[VB] Public Const MaxValue As SByte
8	[JScript] public var MaxValue : SByte;
9	
10	Description
11	A constant representing the largest possible value of SByte.
12	The value of this constant is 127; that is, hexadecimal 0x7F.
13	ToString
14	
15	[C#] public const sbyte MinValue;
16	[C++] public: const char MinValue;
17	[VB] Public Const MinValue As SByte
18	[JScript] public var MinValue : SByte;
19	
20	Description
21	A constant representing the smallest possible value of SByte .
22	The value of this constant is -128; that is, hexadecimal 0x80.
23	CompareTo
24	
25	[C#] public int CompareTo(object obj);

1	[C++] public:sealed int CompareTo(Object* obj);
2	[VB] NotOverridable Public Function CompareTo(ByVal obj As Object) As
3	Integer
4	[JScript] public function CompareTo(obj : Object) : int;
5	
6	Description
7	Compares this instance to a specified object and returns an indication of
8	their relative values.
9	Return Value: A signed number indicating the relative values of this instance and
10	obj .
11	Any instance of SByte, regardless of its value, is considered greater than
12	null. An object to compare, or null.
13	Equals
14	
15	[C#] public override bool Equals(object obj);
16	[C++] public: bool Equals(Object* obj);
17	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
18	[JScript] public override function Equals(obj : Object) : Boolean;
19	
20	Description
21	Returns a value indicating whether this instance is equal to a specified
22	object.
23	Return Value: true if obj is an instance of SByte and equals the value of this
24	instance; otherwise, false. An object to compare with this instance.
25	GetHashCode

```
1
    [C#] public override int GetHashCode();
2
    [C++] public: int GetHashCode();
3
    [VB] Overrides Public Function GetHashCode() As Integer
    [JScript] public override function GetHashCode(): int;
    Description
           Returns the hash code for this instance.
8
    Return Value: A 32-bit signed integer hash code.
           GetTypeCode
10
11
    [C#] public TypeCode GetTypeCode();
12
    [C++] public: __sealed TypeCode GetTypeCode();
13
    [VB] NotOverridable Public Function GetTypeCode() As TypeCode
    [JScript] public function GetTypeCode() : TypeCode;
15
16
    Description
17
           Returns the TypeCode for value type SByte .
18
    Return Value: The enumerated constant, System.TypeCode.SByte.
19
           Parse
20
21
     [C#] public static sbyte Parse(string s);
22
    [C++] public: static char Parse(String* s);
23
    [VB] Public Shared Function Parse(ByVal s As String) As SByte
24
     [JScript] public static function Parse(s : String) : SByte; Converts the String
25
```

representation of a number to its 8-bit signed integer equivalent.
Description
Converts the String representation of a number to its 8-bit signed integer
equivalent.
Return Value: An 8-bit signed integer equivalent to the number contained in s.
s contains a number of the form: [ws][sign]digits[ws] Items in square
brackets ('[' and ']') are optional, and other items are as follows. A System.String
containing a number to convert.
Parse
[C#] public static sbyte Parse(string s, IFormatProvider provider);
[C++] public: static char Parse(String* s, IFormatProvider* provider);
[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As
IFormatProvider) As SByte
[JScript] public static function Parse(s : String, provider : IFormatProvider) :
SByte;
Description
Converts the String representation of a number in a specified culture-
specific format to its 8-bit signed integer equivalent.
Return Value: An 8-bit signed integer equivalent to the number specified in s.
s contains a number of the form: [ws][sign]digits[ws] Items in square
brackets ('[' and ']') are optional, and other items are as follows. A System.String

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provider);

25

containing a number to convert. An System.IFormatProvider interface 1 implementation which supplies culture-specific formatting information about s. 2 Parse 3 4 [C#] public static sbyte Parse(string s, NumberStyles style); 5 [C++] public: static char Parse(String* s, NumberStyles style); [VB] Public Shared Function Parse(ByVal s As String, ByVal style As NumberStyles) As SByte 8 [JScript] public static function Parse(s : String, style : NumberStyles) : SByte; 10 Description 11 Converts the String representation of a number in a specified style to its 8-12 bit signed integer equivalent. 13 Return Value: An 8-bit signed integer equivalent to the number specified in s. 14 s contains a number of the form: [ws][sign]digits[ws] Items in square 15 brackets ('[' and ']') are optional, and other items are as follows. A System.String containing a number to convert. The combination of one or more 17 System.Globalization.NumberStylesconstants that indicate the permitted format of s. 19 Parse 20 21 [C#] public static sbyte Parse(string s, NumberStyles style, IFormatProvider 22 provider); 23 [C++] public: static char Parse(String* s, NumberStyles style, IFormatProvider* 24

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As NumberStyles, ByVal provider As IFormatProvider) As SByte 2 [JScript] public static function Parse(s : String, style : NumberStyles, provider : 3 IFormatProvider): SByte; 4 5 Description 6 Converts the String representation of a number in a specified style and 7 culture-specific format to its 8-bit signed integer equivalent. 8 Return Value: An 8-bit signed integer equivalent to the number specified in s. s contains a number of the form: [ws][sign]digits[ws] Items in square 10 brackets ('[' and ']') are optional, and other items are as follows. A System.String 11 containing a number to convert. The combination of one or more 12 System. Globalization. Number Styles constants that indicate the permitted format 13 of s. An System.IFormatProvider interface implementation which supplies 14 culture-specific formatting information about s. 15 IConvertible.ToBoolean 16 17 [C#] bool IConvertible.ToBoolean(IFormatProvider provider); [C++] bool IConvertible::ToBoolean(IFormatProvider* provider); 19 [VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean 20 Implements IConvertible.ToBoolean 21 [JScript] function IConvertible.ToBoolean(provider: IFormatProvider): Boolean; 22 IConvertible.ToByte 23 24 [C#] byte IConvertible.ToByte(IFormatProvider provider);

1	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
2	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
3	IConvertible.ToByte
4	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
5	IConvertible.ToChar
6	
7	[C#] char IConvertible.ToChar(IFormatProvider provider);
8	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
9	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
10	IConvertible.ToChar
11	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
12	IConvertible.ToDateTime
13	
14	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
15	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
16	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
17	Implements IConvertible.ToDateTime
18	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
19	DateTime;
20	IConvertible.ToDecimal
21	
22	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
23	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
24	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
25	

1	Implements IConvertible.ToDecimal
2	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal
3	IConvertible.ToDouble
4	
5	[C#] double IConvertible.ToDouble(IFormatProvider provider);
6	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
7	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
8	Implements IConvertible.ToDouble
9	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
10	IConvertible.ToInt16
11	
12	[C#] short IConvertible.ToInt16(IFormatProvider provider);
13	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
14	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
15	Implements IConvertible.ToInt16
16	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
17	IConvertible.ToInt32
18	
19	[C#] int IConvertible.ToInt32(IFormatProvider provider);
20	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
21	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
22	Implements IConvertible.ToInt32
23	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
24	IConvertible.ToInt64
25	

1	
2	[C#] long IConvertible.ToInt64(IFormatProvider provider);
3	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
4	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
5	IConvertible.ToInt64
6	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
7	IConvertible.ToSByte
8	
9	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
10	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
11	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
12	Implements IConvertible.ToSByte
13	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
14	IConvertible.ToSingle
15	
16	[C#] float IConvertible.ToSingle(IFormatProvider provider);
17	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
18	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
19	Implements IConvertible.ToSingle
20	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
21	IConvertible.ToType
22	
23	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
24	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
25	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)

1	As Object Implements IConvertible.ToType
2	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider)
3	Object;
4	IConvertible.ToUInt16
5	
6	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
7	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
8	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
9	Implements IConvertible.ToUInt16
10	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
11	IConvertible.ToUInt32
12	
13	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
14	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
15	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
16	Implements IConvertible.ToUInt32
17	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
18	IConvertible.ToUInt64
19	
20	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
21	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
22	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
23	Implements IConvertible.ToUInt64
24	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
25	ToString

1	
2	[C#] public override string ToString();
3	[C++] public: String* ToString();
4	[VB] Overrides Public Function ToString() As String
5	[JScript] public override function ToString(): String; Converts the numeric value
6	of this instance to its equivalent String representation.
7	
8	Description
9	Converts the numeric value of this instance to its equivalent String
10	representation.
11	Return Value: The System.String representation of the value of this instance,
12	consisting of a negative sign if the value is negative, and a sequence of digits
13	ranging from 0 to 9 with no leading zeroes.
14	The return value is formatted with the general format specifier ("G") and
15	the System.Globalization.NumberFormatInfo for the current culture.
16	ToString
17	
18	[C#] public string ToString(IFormatProvider provider);
19	[C++] public:sealed String* ToString(IFormatProvider* provider);
20	[VB] NotOverridable Public Function ToString(ByVal provider As
21	IFormatProvider) As String
22	[JScript] public function ToString(provider : IFormatProvider) : String;
23	
24	Description
25	

Converts the numeric value of this instance to its equivalent String representation using the specified culture-specific format information. Return Value: The System.String representation of the value of this instance as

This instance is formatted with the general format specifier ("G"). An System.IFormatProvider interface implementation which supplies culture-

[C#] public string ToString(string format);

[C++] public: String* ToString(String* format);

[VB] Public Function ToString(ByVal format As String) As String

[JScript] public function ToString(format : String) : String;

Converts the numeric value of this instance to its equivalent String representation, using the specified format.

Return Value: The System.String representation of the value of this instance as

If format is null or an empty string, the return value of this instance is formatted with the general format specifier ("G"). A format string.

[C#] public string ToString(string format, IFormatProvider provider);

[C++] public: __sealed String* ToString(String* format, IFormatProvider*

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provider);
[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal
provider As IFormatProvider) As String
[JScript] public function ToString(format : String, provider : IFormatProvider) :
String;
Description
Converts the numeric value of this instance to its equivalent String
representation using the specified format and culture-specific format information
Return Value: The System.String representation of the value of this instance as
specified by format and provider.
If format is null or an empty string, the return value for this instance is
formatted with the general format specifier ("G"). A format specification. An
System.IFormatProvider interface implementation which supplies culture-
specific formatting information.
SerializableAttribute class (System)
ToString
Description
Indicates that a class can be serialized. This class cannot be inherited.
Apply the System.SerializableAttribute attribute to a class to indicate it
can be serialized. The common language runtime throws

 ${\bf System. Runtime. Serialization. Serialization Exception} \ if \ any \ class \ in \ the \ graph$

1	of objects being serialized does not have the System.SerializableAttribute
2	attribute applied.
3	SerializableAttribute
4	Example Syntax:
5	ToString
6	
7	[C#] public SerializableAttribute();
8	[C++] public: SerializableAttribute();
9	[VB] Public Sub New()
10	[JScript] public function SerializableAttribute();
11	
12	Description
13	Initializes a new instance of the System.SerializableAttribute class.
14	TypeId
15	Single structure (System)
16	ToString
17	
18	
19	Description
20	Represents a single-precision floating point number.
21	The Single value type represents a single-precision 32-bit number with
22	values ranging from negative 3.402823e38 to positive 3.402823e38, as well as
23	positive or negative zero, System.Single.PositiveInfinity,
24	System.Single.NegativeInfinity, and Not-a-Number (System.Single.NaN).
25	ToString

1	
2	[C#] public const float Epsilon;
3	[C++] public: const float Epsilon;
4	[VB] Public Const Epsilon As Single
5	[JScript] public var Epsilon : float;
6	
7	Description
8	A constant representing the smallest positive Single greater than zero.
9	The value of this constant is 1.4e-45.
10	ToString
11	
12	[C#] public const float MaxValue;
13	[C++] public: const float MaxValue;
14	[VB] Public Const MaxValue As Single
15	[JScript] public var MaxValue : float;
16	
17	Description
18	A constant representing the largest possible value of Single .
19	The value of this constant is positive 3.402823e38.
20	ToString
21	
22	[C#] public const float MinValue;
23	[C++] public: const float MinValue;
24	[VB] Public Const MinValue As Single
25	[JScript] public var MinValue : float;

- 11	
1	
2	Description
3	A constant representing the smallest possible value of Single.
4	The value of this constant is negative 3.402823e38.
5	ToString
6	
7	[C#] public const float NaN;
8	[C++] public: const float NaN;
9	[VB] Public Const NaN As Single
10	[JScript] public var NaN : float;
11	
12	Description
13	A constant representing Not-a-Number (NaN).
14	The value of this constant is the result of dividing zero by zero.
15	ToString
16	
17	[C#] public const float NegativeInfinity;
18	[C++] public: const float NegativeInfinity;
19	[VB] Public Const NegativeInfinity As Single
20	[JScript] public var NegativeInfinity : float;
21	
22	Description
23	A constant representing negative infinity.
24	The value of this constant is the result of dividing a negative number by
25	zero.

1	ToString
2	
3	[C#] public const float PositiveInfinity;
4	[C++] public: const float PositiveInfinity;
5	[VB] Public Const PositiveInfinity As Single
6	[JScript] public var PositiveInfinity: float;
7	
8	Description
9	A constant representing positive infinity.
10	The value of this constant is the result of dividing a positive number by
11	zero.
12	CompareTo
13	
14	[C#] public int CompareTo(object value);
15	[C++] public:sealed int CompareTo(Object* value);
16	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
17	Integer
18	[JScript] public function CompareTo(value : Object) : int;
19	
20	Description
21	Compares this instance to a specified object and returns an indication of
22	their relative values.
23	Return Value: A signed number indicating the relative values of this instance and
24	value .
25	

1	Any instance of Single, regardless of its value, is considered greater than
2	null. An object to compare, or null.
3	Equals
4	
5	[C#] public override bool Equals(object obj);
6	[C++] public: bool Equals(Object* obj);
7	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
8	[JScript] public override function Equals(obj : Object) : Boolean;
9	
10	Description
11	Returns a value indicating whether this instance is equal to a specified
12	object.
13	Return Value: true if obj is an instance of Single and equals the value of this
14	instance; otherwise, false. An object to compare with this instance.
15	GetHashCode
16	
17	[C#] public override int GetHashCode();
18	[C++] public: int GetHashCode();
19	[VB] Overrides Public Function GetHashCode() As Integer
20	[JScript] public override function GetHashCode(): int;
21	
22	Description
23	Returns the hash code for this instance.
24	Return Value: A 32-bit signed integer hash code.
25	GetTypeCode

```
1
    [C#] public TypeCode GetTypeCode();
    [C++] public: __sealed TypeCode GetTypeCode();
3
    [VB] NotOverridable Public Function GetTypeCode() As TypeCode
4
    [JScript] public function GetTypeCode(): TypeCode;
6
    Description
7
           Returns the TypeCode for value type Single .
8
    {\it Return~Value:}~ {\it The~enumerated~constant,}~ {\bf System. Type Code. Single}~.
           IsInfinity
10
11
    [C#] public static bool IsInfinity(float f);
12
    [C++] public: static bool IsInfinity(float f);
13
    [VB] Public Shared Function IsInfinity(ByVal f As Single) As Boolean
14
    [JScript] public static function IsInfinity(f: float): Boolean;
15
16
    Description
17
           Returns a value indicating whether the specified number evaluates to either
18
    negative or positive infinity.
19
    Return Value: true if f evaluates to negative or positive infinity; otherwise, false.
20
     A single-precision floating point number.
21
            IsNaN
22
23
     [C#] public static bool IsNaN(float f);
24
     [C++] public: static bool IsNaN(float f);
```

1	[VB] Public Shared Function IsNaN(ByVal f As Single) As Boolean
2	[JScript] public static function IsNaN(f: float): Boolean;
3	
4	Description
5	Returns a value indicating whether the specified number evaluates to Not-a-
6	Number (NaN).
7	Return Value: $true$ if f evaluates to NaN; otherwise, $false$. A single-precision
8	floating point number.
9	IsNegativeInfinity
10	
11	[C#] public static bool IsNegativeInfinity(float f);
12	[C++] public: static bool IsNegativeInfinity(float f);
13	[VB] Public Shared Function IsNegativeInfinity(ByVal f As Single) As Boolean
14	[JScript] public static function IsNegativeInfinity(f: float): Boolean;
15	
16	Description
17	Returns a value indicating whether the specified number evaluates to
18	negative infinity.
19	Return Value: $true$ if f evaluates to negative infinity; otherwise, $false$. A single-
20	precision floating point number.
21	IsPositiveInfinity
22	
23	[C#] public static bool IsPositiveInfinity(float f);
24	[C++] public: static bool IsPositiveInfinity(float f);
25	[VB] Public Shared Function IsPositiveInfinity(ByVal f As Single) As Boolean

[JScript] public static function IsPositiveInfinity(f: float): Boolean; 2 Description 3 Returns a value indicating whether the specified number evaluates to 4 positive infinity. 5 Return Value: true if f evaluates to positive infinity; otherwise, false. A single-6 precision floating point number. 7 Parse 8 9 [C#] public static float Parse(string s); 10 [C++] public: static float Parse(String* s); 11 [VB] Public Shared Function Parse(ByVal s As String) As Single 12 [JScript] public static function Parse(s : String) : float; Converts the **String** 13 representation of a number to its single-precision floating point number 14 equivalent. 15 16 Description 17 Converts the **String** representation of a number to its single-precision 18 floating point number equivalent. 19 Return Value: A single-precision floating point number equivalent to the numeric 20 value or symbol specified in s. 21 s can contain 22 System.Globalization.NumberFormatInfo.PositiveInfinitySymbol, 23 System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, 24

System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form:

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[ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A System.String containing a number to convert.

Parse

[C#] public static float Parse(string s, IFormatProvider provider); [C++] public: static float Parse(String* s, IFormatProvider* provider); [VB] Public Shared Function Parse(ByVal s As String, ByVal provider As IFormatProvider) As Single [JScript] public static function Parse(s: String, provider: IFormatProvider): float;

Description

Converts the String representation of a number in a specified culturespecific format to its single-precision floating point number equivalent. Return Value: A single-precision floating point number equivalent to the numeric value or symbol specified in s.

s can contain

System.Globalization.NumberFormatInfo.PositiveInfinitySymbol, System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A System.String containing a number to convert. An System.IFormatProvider

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interface implementation which supplies culture-specific formatting information about s. Parse [C#] public static float Parse(string s, NumberStyles style); [C++] public: static float Parse(String* s, NumberStyles style); [VB] Public Shared Function Parse(ByVal s As String, ByVal style As NumberStyles) As Single [JScript] public static function Parse(s : String, style : NumberStyles) : float; Description Converts the String representation of a number in a specified style to its single-precision floating point number equivalent. Return Value: A single-precision floating point number equivalent to the numeric value or symbol specified in s. s can contain $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$ System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws]

Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A **System.String** containing a number to convert. The combination of one or more **System.Globalization.NumberStyles**constants that indicate the permitted format of s.

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[C#] public static float Parse(string s	, NumberStyles style,	IFormatProvider
provider);		

[C++] public: static float Parse(String* s, NumberStyles style, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As NumberStyles, ByVal provider As IFormatProvider) As Single

[JScript] public static function Parse(s : String, style : NumberStyles, provider :

IFormatProvider): float;

Description

Converts the **String** representation of a number in a specified style and culture-specific format to its single-precision floating point number equivalent. Return Value: A single-precision floating point number equivalent to the numeric value or symbol specified in s.

s can contain

System.Globalization.NumberFormatInfo.PositiveInfinitySymbol,
System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,
System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form:
[ws][sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits][ws]
Optional items are framed in square brackets ('[' and ']'). Items containing the term
"digits" consist of a series of numeric characters ranging from 0 to 9. A
System.String containing a number to convert. The combination of one or more
System.Globalization.NumberStylesconstants that indicate the permitted format

1	of S. An System. Format Provider interface implementation which supplies
2	culture-specific formatting information about s.
3	IConvertible.ToBoolean
4	
5	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
6	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
7	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
8	Implements IConvertible.ToBoolean
9	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
10	IConvertible.ToByte
11	
12	[C#] byte IConvertible.ToByte(IFormatProvider provider);
13	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
14	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
15	IConvertible.ToByte
16	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
17	IConvertible.ToChar
18	
19	[C#] char IConvertible.ToChar(IFormatProvider provider);
20	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
21	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
22	IConvertible.ToChar
23	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
24	IConvertible.ToDateTime
25	

1	
2	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
3	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
4	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
5	Implements IConvertible.ToDateTime
6	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
7	DateTime;
8	IConvertible.ToDecimal
9	
10	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
11	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
12	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
13	Implements IConvertible.ToDecimal
14	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
15	IConvertible.ToDouble
16	
17	[C#] double IConvertible.ToDouble(IFormatProvider provider);
18	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
19	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
20	Implements IConvertible.ToDouble
21	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
22	IConvertible.ToInt16
23	
24	[C#] short IConvertible.ToInt16(IFormatProvider provider);
25	[C++] short IConvertible::ToInt16(IFormatProvider* provider);

1	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
2	Implements IConvertible.ToInt16
3	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
4	IConvertible.ToInt32
5	
6	[C#] int IConvertible.ToInt32(IFormatProvider provider);
7	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
8	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
9	Implements IConvertible.ToInt32
10	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
11	IConvertible.ToInt64
12	
13	[C#] long IConvertible.ToInt64(IFormatProvider provider);
14	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
15	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
16	IConvertible.ToInt64
17	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
18	IConvertible.ToSByte
19	
20	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
21	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
22	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
23	Implements IConvertible.ToSByte
24	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
25	IConvertible.ToSingle

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1	
2	[C#] float IConvertible.ToSingle(IFormatProvider provider);
3	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
4	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
5	Implements IConvertible.ToSingle
6	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
7	IConvertible.ToType
8	
9	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
10	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
11	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
12	As Object Implements IConvertible.ToType
13	[JScript] function IConvertible.ToType(type : Type, provider : IFormatProvider) :
14	Object;
15	IConvertible.ToUInt16
16	·
17	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
18	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
19	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
20	Implements IConvertible.ToUInt16
21	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
22	IConvertible.ToUInt32
23	
24	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
25	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);

1	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
2	Implements IConvertible.ToUInt32
3	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
4	IConvertible.ToUInt64
5	
6	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
7	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
8	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
9	Implements IConvertible.ToUInt64
10	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
11	ToString
12	
13	[C#] public override string ToString();
14	[C++] public: String* ToString();
15	[VB] Overrides Public Function ToString() As String
16	[JScript] public override function ToString(): String; Converts the numeric value
17	of this instance to its equivalent String representation.
18	
19	Description
20	Converts the numeric value of this instance to its equivalent String
21	representation.
22	Return Value: The System.String representation of the value of this instance.
23	The return value can be
24	System.Globalization.NumberFormatInfo.PositiveInfinitySymbol,
25	System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,

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System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: [sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

IFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **System.String** representation of the value of this instance as specified by *provider*.

The return value can be

System.Globalization.NumberFormatInfo.PositiveInfinitySymbol,

System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,

System.Globalization.NumberFormatInfo.NaNSymbol , or a string of the form:

[sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items

are framed in square brackets ('[' and ']'). Items containing the term "digits" consist

of a series of numeric characters ranging from 0 to 9. An

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System.IFormatProvider interface implementation which supplies culturespecific formatting information. 2 **ToString** 3 [C#] public string ToString(string format); 5 [C++] public: String* ToString(String* format); [VB] Public Function ToString(ByVal format As String) As String 7 [JScript] public function ToString(format : String) : String; 9 Description 10 Converts the numeric value of this instance to its equivalent String 11 representation, using the specified format. Return Value: The System.String representation of the value of this instance as 13 specified by format. 14 The return value can be 15 $System. Globalization. Number Format Info. Positive Infinity Symbol\ ,$ 16 System.Globalization.NumberFormatInfo.NegativeInfinitySymbol, 17 System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form: 18 [sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items 19 are framed in square brackets ('[' and ']'). Items containing the term "digits" consist 20 of a series of numeric characters ranging from 0 to 9. A format string. 21 **ToString** 22 23 [C#] public string ToString(string format, IFormatProvider provider); 24 [C++] public: sealed String* ToString(String* format, IFormatProvider*

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provider);

[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal provider As IFormatProvider) As String

[JScript] public function ToString(format : String, provider : IFormatProvider) : String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified format and culture-specific format information. *Return Value:* The **System.String** representation of the value of this instance as specified by *format* and *provider*.

The return value can be

System.Globalization.NumberFormatInfo.PositiveInfinitySymbol,
System.Globalization.NumberFormatInfo.NegativeInfinitySymbol,
System.Globalization.NumberFormatInfo.NaNSymbol, or a string of the form:
[sign]integral-digits[.[fractional-digits]][e[sign]exponential-digits] Optional items are framed in square brackets ('[' and ']'). Items containing the term "digits" consist of a series of numeric characters ranging from 0 to 9. A format specification. An System.IFormatProvider interface implementation which supplies culture-specific formatting information.

Environment.SpecialFolder enumeration (System)

ToString

Description

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Specifies enumerated constants used to retrieve directory paths to system special folders.

The **System.Environment.SpecialFolder.System** method uses these enumerated constants to indicate the special folder path to retrieve.

ToString

[C#] public const Environment.SpecialFolder ApplicationData;

[C++] public: const Environment.SpecialFolder ApplicationData;

[VB] Public Const ApplicationData As Environment.SpecialFolder

[JScript] public var ApplicationData: Environment.SpecialFolder;

Description

The directory that serves as a common repository for application-specific data for the current, roaming user.

ToString

[C#] public const Environment.SpecialFolder CommonApplicationData;

[C++] public: const Environment.SpecialFolder CommonApplicationData;

[VB] Public Const CommonApplicationData As Environment.SpecialFolder

[JScript] public var CommonApplicationData: Environment.SpecialFolder;

Description

The directory that serves as a common repository for application-specific data that is used by all users.

ToString

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1	
2	[C#] public const Environment.SpecialFolder CommonProgramFiles;
3	[C++] public: const Environment.SpecialFolder CommonProgramFiles;
4	[VB] Public Const CommonProgramFiles As Environment.SpecialFolder
5	[JScript] public var CommonProgramFiles : Environment.SpecialFolder;
6	
7	Description
8	The directory for components that are shared across applications.
9	ToString
10	
11	[C#] public const Environment.SpecialFolder Cookies;
12	[C++] public: const Environment.SpecialFolder Cookies;
13	[VB] Public Const Cookies As Environment.SpecialFolder
14	[JScript] public var Cookies: Environment.SpecialFolder;
15	
16	Description
17	The directory that serves as a common repository for Internet cookies
18	ToString
19	
20	[C#] public const Environment.SpecialFolder DesktopDirectory;
21	[C++] public: const Environment.SpecialFolder DesktopDirectory;
22	[VB] Public Const DesktopDirectory As Environment.SpecialFolder
23	[JScript] public var DesktopDirectory : Environment.SpecialFolder;
24	
25	Description

1	The directory used to physically store file objects on the desktop.
2	ToString
3	
4	[C#] public const Environment.SpecialFolder Favorites;
5	[C++] public: const Environment.SpecialFolder Favorites;
6	[VB] Public Const Favorites As Environment.SpecialFolder
7	[JScript] public var Favorites : Environment.SpecialFolder;
8	
9	Description
10	The directory that serves as a common repository for the user's favorite
11	items.
12	ToString
13	
14	[C#] public const Environment.SpecialFolder History;
15	[C++] public: const Environment.SpecialFolder History;
16	[VB] Public Const History As Environment.SpecialFolder
17	[JScript] public var History: Environment.SpecialFolder;
18	
19	Description
20	The directory that serves as a common repository for Internet history items
21	ToString
22	
23	[C#] public const Environment.SpecialFolder InternetCache;
24	[C++] public: const Environment.SpecialFolder InternetCache;
25	[VB] Public Const InternetCache As Environment.SpecialFolder

1	[JScript] public var InternetCache : Environment.SpecialFolder;
2	
3	Description
4	The directory that serves as a common repository for temporary Internet
5	files.
6	ToString
7	
8	[C#] public const Environment.SpecialFolder LocalApplicationData;
9	[C++] public: const Environment.SpecialFolder LocalApplicationData;
10	[VB] Public Const LocalApplicationData As Environment.SpecialFolder
11	[JScript] public var LocalApplicationData : Environment.SpecialFolder;
12	
13	Description
14	The directory that serves as a common repository for application-specific
15	data that is used by the current, non-roaming user.
16	ToString
17	
18	[C#] public const Environment.SpecialFolder Personal;
19	[C++] public: const Environment.SpecialFolder Personal;
20	[VB] Public Const Personal As Environment.SpecialFolder
21	[JScript] public var Personal : Environment.SpecialFolder;
22	
23	Description
24	The directory that serves as a common repository for documents.
25	ToString

1	
2	[C#] public const Environment.SpecialFolder ProgramFiles;
3	[C++] public: const Environment.SpecialFolder ProgramFiles;
4	[VB] Public Const ProgramFiles As Environment.SpecialFolder
5	[JScript] public var ProgramFiles : Environment.SpecialFolder;
6	
7	Description
8	The program files directory.
9	ToString
10	
11	[C#] public const Environment.SpecialFolder Programs;
12	[C++] public: const Environment.SpecialFolder Programs;
13	[VB] Public Const Programs As Environment.SpecialFolder
14	[JScript] public var Programs : Environment.SpecialFolder;
15	
16	Description
17	The directory that contains the user's program groups.
18	ToString
19	
20	[C#] public const Environment.SpecialFolder Recent;
21	[C++] public: const Environment.SpecialFolder Recent;
22	[VB] Public Const Recent As Environment.SpecialFolder
23	[JScript] public var Recent : Environment.SpecialFolder;
24	
25	Description

1	The directory that contains the user's most recently used documents.
2	ToString
3	
4	[C#] public const Environment.SpecialFolder SendTo;
5	[C++] public: const Environment.SpecialFolder SendTo;
6	[VB] Public Const SendTo As Environment.SpecialFolder
7	[JScript] public var SendTo: Environment.SpecialFolder;
8	
9	Description
10	The directory that contains Send To menu items.
11	ToString
12	
13	[C#] public const Environment.SpecialFolder StartMenu;
14	[C++] public: const Environment.SpecialFolder StartMenu;
15	[VB] Public Const StartMenu As Environment.SpecialFolder
16	[JScript] public var StartMenu : Environment.SpecialFolder;
17	
18	Description
19	The directory that contains the Start menu items.
20	ToString
21	
22	[C#] public const Environment.SpecialFolder Startup;
23	[C++] public: const Environment.SpecialFolder Startup;
24	[VB] Public Const Startup As Environment.SpecialFolder
25	[JScript] public var Startup : Environment.SpecialFolder;

11	
1	
2	Description
3	The directory that corresponds to the user's Startup program group.
4	ToString
5	
6	[C#] public const Environment.SpecialFolder System;
7	[C++] public: const Environment.SpecialFolder System;
8	[VB] Public Const System As Environment.SpecialFolder
9	[JScript] public var System : Environment.SpecialFolder;
10	
11	Description
12	The System directory.
13	ToString
14	
15	[C#] public const Environment.SpecialFolder Templates;
16	[C++] public: const Environment.SpecialFolder Templates;
17	[VB] Public Const Templates As Environment.SpecialFolder
18	[JScript] public var Templates : Environment.SpecialFolder;
19	
20	Description
21	The directory that serves as a common repository for document templates
22	StackOverflowException class (System)
23	ToString
24	
25	
,	•

Description

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The exception that is thrown when the execution stack overflows by having too many pending method calls. This class cannot be inherited.

System.StackOverflowException is thrown for execution stack overflow errors, typically in case of a very deep or unbounded recursion.

StackOverflowException

Example Syntax:

ToString

[C#] public StackOverflowException();

[C++] public: StackOverflowException();

[VB] Public Sub New()

[JScript] public function StackOverflowException(); Initializes a new instance of the System.StackOverflowException class.

Description

Initializes a new instance of the **System.StackOverflowException** class with default properties.

The following table shows the initial property values for an instance of System.StackOverflowException.

StackOverflowException

Example Syntax:

ToString

1	
2	[C#] public StackOverflowException(string message);
3	[C++] public: StackOverflowException(String* message);
4	[VB] Public Sub New(ByVal message As String)
5	[JScript] public function StackOverflowException(message : String);
6	
7	Description
8	Initializes a new instance of the System.StackOverflowException class
9	with a specified error message.
10	The following table shows the initial property values for an instance of
11	System.StackOverflowException . The error message that explains the reason for
12	the exception.
13	StackOverflowException
14	Example Syntax:
15	ToString
16	
17	[C#] public StackOverflowException(string message, Exception innerException);
18	[C++] public: StackOverflowException(String* message, Exception*
19	innerException);
20	[VB] Public Sub New(ByVal message As String, ByVal innerException As
21	Exception)
22	[JScript] public function StackOverflowException(message : String,
23	innerException : Exception);
24	
25	Description

Initializes a new instance of the **System.StackOverflowException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException .

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

STAThreadAttribute class (System)

ToString

Description

Indicates the default threading model for an application is single-threaded apartment.

1	Only apply this attribute to the main method of an application.
2	STAThreadAttribute
3	Example Syntax:
4	ToString
5	
6	[C#] public STAThreadAttribute();
7	[C++] public: STAThreadAttribute();
8	[VB] Public Sub New()
9	[JScript] public function STAThreadAttribute();
10	
11	Description
12	Initializes a new instance of the System.STAThreadAttribute class.
13	TypeId
14	String class (System)
15	ToString
16	
17	
18	Description
19	Represents an immutable string of characters.
20	An instance of String is said to be "immutable" because its value cannot be
21	modified once it has been created. Methods that appear to modify a String
22	instance actually return a new instance containing the modification. Use the
23	System.Text.StringBuilder class if it is necessary to actually modify the contents
24	of a string-like object.
25	ToString

1	
2	[C#] public static readonly string Empty;
3	[C++] public: static String* Empty;
4	[VB] Public Shared ReadOnly Empty As String
5	[JScript] public static var Empty: String;
6	
7	Description
8	A read-only field that represents the empty string.
9	The value of this field is the string, "".
10	String
11	Example Syntax:
12	ToString
13	
14	[C#] unsafe public String(char* value);
15	[C++] public: String(_wchar_t* value); Initializes a new instance of the String
16	class.
17	
18	Description
19	Initializes a new instance of the String class to the value indicated by a
20	specified pointer to an array of Unicode characters.
21	If value is a null pointer, an System.String.Empty instance is initialized. A
22	pointer to an array of Unicode characters.
23	String
24	Example Syntax:
25	ToString

```
[C#] public String(char[] value);
2
    [C++] public: String( wchar t value _gc[]);
3
    [VB] Public Sub New(ByVal value() As Char)
    [JScript] public function String(value : Char[]);
6
    Description
7
           Initializes a new instance of the String class to the value indicated by an
8
    array of Unicode characters. An array of Unicode characters.
9
           String
10
           Example Syntax:
11
           ToString
12
13
    [C#] unsafe public String(sbyte* value);
14
    [C++] public: String(char* value);
15
16
    Description
17
            Initializes a new instance of the String class to the value indicated by a
18
    pointer to an array of 8-bit signed integers.
19
            If value is a null pointer, an System.String.Empty instance is initialized. A
20
    pointer to an array of 8-bit signed integers.
21
            String
22
            Example Syntax:
23
            ToString
24
25
```

1	
2	[C#] public String(char c, int count);
3	[C++] public: String(wchar_t c, int count);
4	[VB] Public Sub New(ByVal c As Char, ByVal count As Integer)
5	[JScript] public function String(c : Char, count : int);
6	
7	Description
8	Initializes a new instance of the String class to the value indicated by a
9	specified Unicode character repeated a specified number of times. A Unicode
10	character. The number of times c occurs.
11	String
12	Example Syntax:
13	ToString
14	
15	[C#] unsafe public String(char* value, int startIndex, int length);
16	[C++] public: String(wchar_t* value, int startIndex, int length);

Description

Initializes a new instance of the **String** class to the value indicated by a specified pointer to an array of Unicode characters, a starting character position within that array, and a length.

If *value* is a null pointer, an **System.String.Empty** instance is initialized. A pointer to an array of Unicode characters. The starting position within *value*. The number of characters within *value* to use.

String

1	Example Syntax:
2	ToString
3	
4	[C#] public String(char[] value, int startIndex, int length);
5	[C++] public: String(_wchar_t value _gc[], int startIndex, int length);
6	[VB] Public Sub New(ByVal value() As Char, ByVal startIndex As Integer,
7	ByVal length As Integer)
8	[JScript] public function String(value : Char[], startIndex : int, length : int);
9	
10	Description
11	Initializes a new instance of the String class to the value indicated by an
12	array of Unicode characters, a starting character position within that array, and a
13	length.
14	If value is null, an System.String.Empty instance is initialized. An array
15	of Unicode characters. The starting position within value. The number of
16	characters within value to use.
17	String
18	Example Syntax:
19	ToString
20	
21	[C#] unsafe public String(sbyte* value, int startIndex, int length);
22	[C++] public: String(char* value, int startIndex, int length);
23	
24	Description
25	

Initializes a new instance of the **String** class to the value indicated by a specified pointer to an array of 8-bit signed integers, a starting character position within that array, and a length.

If value is a null pointer, an **System.String.Empty** instance is initialized. A

If *value* is a null pointer, an **System.String.Empty** instance is initialized. A pointer to an array of 8-bit signed integers. The starting position within *value*. The number of characters within *value* to use.

String

Example Syntax:

ToString

[C#] unsafe public String(sbyte* value, int startIndex, int length, Encoding enc); [C++] public: String(char* value, int startIndex, int length, Encoding* enc);

Description

Initializes a new instance of the **String** class to the value indicated by a specified pointer to an array of 8-bit signed integers, a starting character position within that array, a length, and an **Encoding** object.

If value is a null pointer, an **System.String.Empty** instance is initialized. A pointer to an array of 8-bit signed integers. The starting position within value. The number of characters within value to use. An **System.Text.Encoding** object that specifies how the array referenced by value is encoded.

Chars

ToString

[C#] public char this[int index] {get;}

```
[C++] public: property __wchar_t get_Chars(int index);
    [VB] Public Default ReadOnly Property Chars(ByVal index As Integer) As Char
    [JScript] returnValue = StringObject.Chars(index);
    Description
           Gets the character at a specified character position in this instance.
           index is zero-based. A character position in this instance.
7
           Length
8
           ToString
9
10
    [C#] public int Length {get;}
11
    [C++] public: __property int get_Length();
12
    [VB] Public ReadOnly Property Length As Integer
13
    [JScript] public function get Length(): int;
14
15
    Description
16
           Gets the number of characters in this instance.
17
           Clone
18
19
    [C#] public object Clone();
20
    [C++] public: sealed Object* Clone();
21
    [VB] NotOverridable Public Function Clone() As Object
22
    [JScript] public function Clone(): Object;
23
24
    Description
```

23

24

25

Returns a reference to this instance of **String**. 1 Return Value: This instance of String. 2 The return value is not an independent copy of this instance; it is simply 3 another view of the same data. Use the **System.String.Copy(System.String)** or System.String.CopyTo(System.Int32,System.Char[],System.Int32,System.Int3 5 2) method to create a separate String object with the same value as this instance. 6 Compare 7 8 [C#] public static int Compare(string strA, string strB); 9 [C++] public: static int Compare(String* strA, String* strB); 10 [VB] Public Shared Function Compare(ByVal strA As String, ByVal strB As 11 String) As Integer 12 [JScript] public static function Compare(strA : String, strB : String) : int; 13 Compares two specified **String** objects. 14 15 Description 16 Compares two specified **String** objects. 17 Return Value: A 32-bit signed integer indicating the lexical relationship between 18 the two comparands. 19 20 21

By definition, any **String**, including the empty string, compares greater than a null reference; and two null references compare equal to each other. The first String. The second String.

Compare

[C#] public static int Compare(string strA, string strB, bool ignoreCase);

[C++] public: static int Compare(String* strA, String* strB, bool ignoreCase); [VB] Public Shared Function Compare(ByVal strA As String, ByVal strB As 2 String, ByVal ignoreCase As Boolean) As Integer 3 [JScript] public static function Compare(strA : String, strB : String, ignoreCase : Boolean): int; 5 6 Description 7 Compares two specified String objects, ignoring or honoring their case. 8 Return Value: A 32-bit signed integer indicating the lexical relationship between the two comparands. 10 By definition, any String, including the empty string, compares greater 11 than a null reference; and two null references compare equal to each other. The 12 first String. The second String. A System. Boolean indicating a case-sensitive or 13 insensitive comparison. (true indicates a case-insensitive comparison.) 14 Compare 15 16 17

[C#] public static int Compare(string strA, string strB, bool ignoreCase,

CultureInfo culture);

[C++] public: static int Compare(String* strA, String* strB, bool ignoreCase,

CultureInfo* culture);

[VB] Public Shared Function Compare(ByVal strA As String, ByVal strB As

String, ByVal ignoreCase As Boolean, ByVal culture As CultureInfo) As Integer

[JScript] public static function Compare(strA : String, strB : String, ignoreCase :

Boolean, culture: CultureInfo): int;

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Description

Compares two specified **String** objects, ignoring or honoring their case, and honoring culture-specific information about their formatting.

Return Value: A 32-bit signed integer indicating the lexical relationship between the two comparands.

culture specifies a System.Globalization.CultureInfo object, which provides culture-specific information that can affect the comparison. The first String. The second String. A System.Boolean indicating a case-sensitive or insensitive comparison. (true indicates a case-insensitive comparison.) A System.Globalization.CultureInfo object that supplies culture-specific formatting information.

Compare

[C#] public static int Compare(string strA, int indexA, string strB, int indexB, int length);

[C++] public: static int Compare(String* strA, int indexA, String* strB, int indexB, int length);

[VB] Public Shared Function Compare(ByVal strA As String, ByVal indexA As Integer, ByVal strB As String, ByVal indexB As Integer, ByVal length As Integer) As Integer

[JScript] public static function Compare(strA : String, indexA : int, strB : String, indexB : int, length : int) : int;

Description

Compares substrings of two specified **String** objects.

Return Value: A 32-bit signed integer indicating the lexical relationship between the two comparands.

length cannot be negative. If length is zero, then zero is returned. The first **String**. The position of the substring within strA. The second **String**. The position of the substring within strB. The maximum number of characters in the substrings to compare.

Compare

[C#] public static int Compare(string strA, int indexA, string strB, int indexB, int length, bool ignoreCase);

[C++] public: static int Compare(String* strA, int indexA, String* strB, int indexB, int length, bool ignoreCase);

[VB] Public Shared Function Compare(ByVal strA As String, ByVal indexA As Integer, ByVal strB As String, ByVal indexB As Integer, ByVal length As Integer, ByVal ignoreCase As Boolean) As Integer

[JScript] public static function Compare(strA : String, indexA : int, strB : String, indexB : int, length : int, ignoreCase : Boolean) : int;

Description

Compares substrings of two specified **String** objects, ignoring or honoring their case.

Return Value: A 32-bit signed integer indicating the lexical relationship between the two comparands.

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indexA and indexB are zero-based. The first **String**. The position of the substring within strA. The second **String**. The position of the substring within strB. The maximum number of characters in the substrings to compare. A **System.Boolean** indicating a case-sensitive or insensitive comparison. (**true** indicates a case-insensitive comparison.)

Compare

[C#] public static int Compare(string strA, int indexA, string strB, int indexB, int length, bool ignoreCase, CultureInfo culture);

[C++] public: static int Compare(String* strA, int indexA, String* strB, int indexB, int length, bool ignoreCase, CultureInfo* culture);

[VB] Public Shared Function Compare(ByVal strA As String, ByVal indexA As Integer, ByVal strB As String, ByVal indexB As Integer, ByVal length As Integer, ByVal ignoreCase As Boolean, ByVal culture As CultureInfo) As Integer [JScript] public static function Compare(strA : String, indexA : int, strB : String, indexB : int, length : int, ignoreCase : Boolean, culture : CultureInfo) : int;

Description

Compares substrings of two specified **String** objects, ignoring or honoring their case, and honoring culture-specific information about their formatting.

Return Value: An integer indicating the lexical relationship between the two comparands.

culture specifies a **System.Globalization.CultureInfo** object, which provides culture-specific information that can affect the comparison. The first **String**. The position of the substring within *strA*. The second **String**. The position

of the substring within the *strB*. The maximum number of characters in the substrings to compare. A **System.Boolean** indicating a case-sensitive or insensitive comparison. (**true** indicates a case-insensitive comparison.) A **System.Globalization.CultureInfo** object that supplies culture-specific formatting information.

CompareOrdinal

[C#] public static int CompareOrdinal(string strA, string strB);

[C++] public: static int CompareOrdinal(String* strA, String* strB);

[VB] Public Shared Function CompareOrdinal(ByVal strA As String, ByVal strB

As String) As Integer

[JScript] public static function CompareOrdinal(strA : String, strB : String) : int; Compares two **String** objects, without considering the local national language or

Description

culture.

Compares two specified **String** objects, without considering the local national language or culture.

Return Value: An integer indicating the lexical relationship between the two comparands.

By definition, any **String**, including the empty string, compares greater than a null reference; and two null references compare equal to each other. The first **String**. The second **String**.

CompareOrdinal

[C#] public static int CompareOrdinal(string strA, int indexA, string strB, int indexB, int length);

[C++] public: static int CompareOrdinal(String* strA, int indexA, String* strB, int indexB, int length);

[VB] Public Shared Function CompareOrdinal(ByVal strA As String, ByVal indexA As Integer, ByVal strB As String, ByVal indexB As Integer, ByVal length As Integer) As Integer

[JScript] public static function CompareOrdinal(strA : String, indexA : int, strB : String, indexB : int, length : int) : int;

Description

Compares substrings of two specified **String** objects, without considering the local national language or culture. Parameters specify the length and starting positions of the substrings.

Return Value: A 32-bit signed integer indicating the lexical relationship between the two comparands.

By definition, any **String**, including the empty string, compares greater than a null reference; and two null references compare equal to each other. The first **String**. The starting index of the substring in *strA*. The second **String**. The starting index of the substring in *strB*. The maximum number of characters in the substrings to compare.

CompareTo

[C#] public int CompareTo(object value);

1	[C++] public:sealed int CompareTo(Object* value);
2	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
3	Integer
4	[JScript] public function CompareTo(value : Object) : int; Compares this instance
5	with a specified object.
6	
7	Description
8	Compares this instance with a specified Object .
9	Return Value: A 32-bit signed integer indicating the lexical relationship between
10	the two comparands.
11	value must be a String object. An System.Object that evaluates to a
12	String.
13	CompareTo
14	
15	[C#] public int CompareTo(string strB);
16	[C++] public: int CompareTo(String* strB);
17	[VB] Public Function CompareTo(ByVal strB As String) As Integer
18	[JScript] public function CompareTo(strB : String) : int;
19	
20	Description
21	Compares this instance with a specified String object.
22	Return Value: A 32-bit signed integer indicating the lexical relationship between
23	the two comparands.
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By definition, any String, including the empty string, compares greater than a null reference; and two null references compare equal to each other. A String. Concat [C#] public static string Concat(object arg0); [C++] public: static String* Concat(Object* arg0); [VB] Public Shared Function Concat(ByVal arg0 As Object) As String [JScript] public static function Concat(arg0 : Object) : String; Concatenates one or more instances of String, or the String representations of the values of one or more instances of Object. Description Creates the **String** representation of a specified object. Return Value: The String representation of the value of $arg\theta$. An System.String.Empty string is used in place of any null argument. An System.Object or null. Concat

[C#] public static string Concat(params object[] args);

[C++] public: static String* Concat(Object* args __gc[]);

[VB] Public Shared Function Concat(ByVal ParamArray args() As Object) As

String

[JScript] public static function Concat(args : Object[]) : String;

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Concatenates the **String** representations of the elements in a specified **Object** array.

Return Value: The concatenated **String** representations of the values of the elements in args.

An System.String.Empty string is used in place of any null object in the array. An System.Object array.

Concat

[C#] public static string Concat(params string[] values);

[C++] public: static String* Concat(String* values __gc[]);

[VB] Public Shared Function Concat(ByVal ParamArray values() As String) As

String

[JScript] public static function Concat(values : String[]) : String;

Description

Concatenates the elements of a specified String array.

Return Value: The concatenated elements of values.

An **System.String.Empty** string is used in place of any null object in the array. An array of **String** instances.

Concat

[C#] public static string Concat(object arg0, object arg1);

[C++] public: static String* Concat(Object* arg0, Object* arg1);

1	[VB] Public Shared Function Concat(ByVal arg0 As Object, ByVal arg1 As
2	Object) As String
3	[JScript] public static function Concat(arg0 : Object, arg1 : Object) : String;
4	
5	Description
6	Concatenates the String representations of two specified objects.
7	Return Value: The concatenated String representations of the values of arg0 and
8	arg1.
9	An System.String.Empty string is used in place of any null argument. The
10	first System.Object. The second Object.
11	Concat
12	
13	[C#] public static string Concat(string str0, string str1);
14	[C++] public: static String* Concat(String* str0, String* str1);
15	[VB] Public Shared Function Concat(ByVal str0 As String, ByVal str1 As String)
16	As String
17	[JScript] public static function Concat(str0 : String, str1 : String) : String;
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19	Description
20	Concatenates two specified instances of String .
21	Return Value: The concatenation of str0 and str1.
22	An System.String.Empty string is used in place of any null argument. The
23	first String. The second String.
24	Concat
25	

1 [C#] public static string Concat(object arg0, object arg1, object arg2); 2 [C++] public: static String* Concat(Object* arg0, Object* arg1, Object* arg2); 3 [VB] Public Shared Function Concat(ByVal arg0 As Object, ByVal arg1 As Object, ByVal arg2 As Object) As String 5 [JScript] public static function Concat(arg0 : Object, arg1 : Object, arg2 : Object) : 6 String; 7 8 Description 9 Concatenates the **String** representations of three specified objects. 10 Return Value: The concatenated String representations of the values of $arg\theta$, 11 arg1, and arg2. 12 An System.String.Empty string is used in place of any null argument. The 13 first System.Object. The second Object. The third Object. 14 Concat 15 16 [C#] public static string Concat(string str0, string str1, string str2); 17 [C++] public: static String* Concat(String* str0, String* str1, String* str2); 18 [VB] Public Shared Function Concat(ByVal str0 As String, ByVal str1 As String, 19 ByVal str2 As String) As String 20 [JScript] public static function Concat(str0 : String, str1 : String, str2 : String) : 21 String; 22 23 Description 24

Concatenates three specified instances of **String**. 1 Return Value: The concatenation of str0, str1, and str2. 2 An System.String.Empty string is used in place of any null argument. The 3 first String. The second String. The third String. 4 Concat 5 6 [C++] public: static String* Concat(Object* arg0, Object* arg1, Object* arg2, 7 Object* arg3, ...); 8 Concat 9 10 [C#] public static string Concat(string str0, string str1, string str2, string str3); 11 [C++] public: static String* Concat(String* str0, String* str1, String* str2, String* 12 str3); 13 [VB] Public Shared Function Concat(ByVal str0 As String, ByVal str1 As String, 14 ByVal str2 As String, ByVal str3 As String) As String 15 [JScript] public static function Concat(str0 : String, str1 : String, str2 : String, str3 16 : String) : String; 17 18 Description 19 Concatenates four specified instances of String. 20 Return Value: The concatenation of str0, str1, str2, and str3. 21 An System.String.Empty string is used in place of any null object in the 22 array. The first String. The second String. The third String. The fourth String. 23 Copy 24

[C#] public static string Copy(string str); [C++] public: static String* Copy(String* str); 3 [VB] Public Shared Function Copy(ByVal str As String) As String 4 [JScript] public static function Copy(str : String) : String; 5 6 Description 7 Creates a new instance of **String** with the same value as a specified 8 instance of String. Return Value: A new String with the same value as str. The String to be copied 10 CopyTo 11 12 [C#] public void CopyTo(int sourceIndex, char[] destination, int destinationIndex, 13 int count); 14 [C++] public: void CopyTo(int sourceIndex, __wchar_t destination __gc[], int 15 destinationIndex, int count); 16 [VB] Public Sub CopyTo(ByVal sourceIndex As Integer, ByVal destination() As 17 Char, ByVal destinationIndex As Integer, ByVal count As Integer) 18 [JScript] public function CopyTo(sourceIndex : int, destination : Char[], 19 destinationIndex : int, count : int); 20 21 Description 22 Copies a specified number of characters from a specified position in this 23 instance to a specified position in an array of Unicode characters. 24

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count characters are copied from the sourceIndex position of this instance to the destinationIndex position of destination. A character position in this instance. An array of Unicode characters. An array element in destination. The number of characters in this instance to copy to destination. **EndsWith** [C#] public bool EndsWith(string value);

[C++] public: bool EndsWith(String* value);

[VB] Public Function EndsWith(ByVal value As String) As Boolean

[JScript] public function EndsWith(value : String) : Boolean;

Description

Determines whether the end of this instance matches the specified String. Return Value: true if the end of this instance matches value; false if value does not match or is longer than this instance.

The comparison is case-sensitive. A String.

Equals

[C#] public override bool Equals(object obj);

[C++] public: bool Equals(Object* obj);

[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean [JScript] public override function Equals(obj : Object) : Boolean; Determines whether two **String** objects have the same value.

Description

1	Determines whether this instance of String and a specified object, which
2	must be a String, have the same value.
3	Return Value: true if obj is a String and its value is the same as this instance;
4	otherwise, false. This instance is null.
5	This comparison is case-sensitive. An System.Object.
6	Equals
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8	[C#] public new bool Equals(string value);
9	[C++] public: bool Equals(String* value);
10	[VB] Shadows Public Function Equals(ByVal value As String) As Boolean
11	[JScript] public hide function Equals(value : String) : Boolean;
12	
13	Description
14	Determines whether this instance and a specified String have the same
15	value.
16	Return Value: true if the value of value is the same as this instance; otherwise,
17	false. This instance is null.
18	This comparison is case-sensitive. A String .
19	Equals
20	
21	[C#] public static new bool Equals(string a, string b);
22	[C++] public: static bool Equals(String* a, String* b);
23	[VB] Shadows Public Shared Function Equals(ByVal a As String, ByVal b As
24	String) As Boolean
25	[JScript] public static hide function Equals(a : String, b : String) : Boolean;

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Format Format

Description

Determines whether two specified **String** objects have the same value.

Return Value: true if the value of a is the same as the value of b; otherwise, false.

The comparison is case-sensitive. A String or null. A String or null.

Format

[C#] public static string Format(string format, object arg0);

[C++] public: static String* Format(String* format, Object* arg0);

[VB] Public Shared Function Format(ByVal format As String, ByVal arg0 As

Object) As String

[JScript] public static function Format(format : String, arg0 : Object) : String; Replaces each format specification in a specified **String** with the textual equivalent of a corresponding object's value.

Description

Replaces the format specification in a specified **String** with the textual equivalent of the value of a specified **Object** instance.

Return Value: A copy of format in which the first format specification has be replaced by the **String** equivalent of the $arg\theta$.

The format parameter is embedded with zero or more format specifications of the form, $\{N[,M][:formatString]\}$, where: N is a zero-based integer indicating the argument to be formatted. A **String** containing zero or more format specifications. An **System.Object** to be formatted.

[C#] public static string Format(string format, params object[] args);
[C++] public: static String* Format(String* format, Object* args __gc[]);
[VB] Public Shared Function Format(ByVal format As String, ByVal ParamArray args() As Object) As String
[JScript] public static function Format(format : String, args : Object[]) : String;

Description

Replaces the format specification in a specified **String** with the textual equivalent of the value of a corresponding **Object** instance in a specified array.

Return Value: A copy of format in which the format specifications have been replaced by the **String** equivalent of the corresponding instances of **Object** in args

The format parameter is embedded with zero or more format specifications of the form, $\{N[,M][:formatString]\}$, where: N is a zero-based integer indicating the argument to be formatted. A **String** containing zero or more format specifications. An **System.Object** array containing zero or more objects to be formatted.

Format

[C#] public static string Format(IFormatProvider provider, string format, params object[] args);

[C++] public: static String* Format(IFormatProvider* provider, String* format, Object* args __gc[]);

[VB] Public Shared Function Format(ByVal provider As IFormatProvider, ByVal

format As String, ByVal ParamArray args() As Object) As String

[JScript] public static function Format(provider : IFormatProvider, format : String,

args : Object[]) : String;

Description

Replaces the format specification in a specified **String** with the textual equivalent of the value of a corresponding **Object** instance in a specified array. A specified parameter supplies culture-specific formatting information.

Return Value: A copy of format in which the format specifications have been replaced by the **String** equivalent of the corresponding instances of **Object** in args

The format parameter is embedded with zero or more format specifications of the form, $\{N[,M][:formatString]\}$, where: N is a zero-based integer indicating the argument to be formatted. An System.IFormatProvider interface implementation that supplies culture-specific formatting information. A String containing zero or more format specifications. An System.Object array containing zero or more objects to be formatted.

Format

[C#] public static string Format(string format, object arg0, object arg1);
[C++] public: static String* Format(String* format, Object* arg0, Object* arg1);
[VB] Public Shared Function Format(ByVal format As String, ByVal arg0 As
Object, ByVal arg1 As Object) As String
[JScript] public static function Format(format : String, arg0 : Object, arg1 :
Object) : String;

Description

Replaces the format specification in a specified **String** with the textual equivalent of the value of two specified **Object** instances.

Return Value: A copy of format in which the first and second format specifications have been replaced by the **String** equivalent of the arg0 and arg1.

A **String** containing zero or more format specifications. The first **System.Object** to be formatted. The second **Object** to be formatted.

Format

[C#] public static string Format(string format, object arg0, object arg1, object arg2);

[C++] public: static String* Format(String* format, Object* arg0, Object* arg1, Object* arg2);

[VB] Public Shared Function Format(ByVal format As String, ByVal arg0 AsObject, ByVal arg1 As Object, ByVal arg2 As Object) As String[JScript] public static function Format(format : String, arg0 : Object, arg1 : Object, arg2 : Object) : String;

Description

Replaces the format specification in a specified **String** with the textual equivalent of the value of three specified **Object** instances.

Return Value: A copy of format in which the first, second, and third format specifications have been replaced by the **String** equivalent of the arg0, arg1, and arg2.

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The format parameter is embedded with zero or more format specifications of the form, $\{N[,M][:formatString]\}$, where: N is a zero-based integer indicating the argument to be formatted. A **String** containing zero or more format specifications. The first **System.Object** to be formatted. The second **Object** to be formatted. The third **Object** to be formatted.

GetEnumerator

[C#] public CharEnumerator GetEnumerator();

[C++] public: CharEnumerator* GetEnumerator();

[VB] Public Function GetEnumerator() As CharEnumerator

[JScript] public function GetEnumerator(): CharEnumerator;

Description

Retrieves an object that can iterate through the individual characters in this instance.

Return Value: A System.CharEnumerator object.

This method is required by programming languages that support the System.Collections.IEnumerator interface to iterate through members of a collection. For example, the Microsoft Visual Basic and C# programming languages' foreach statement invokes this method to return a CharEnumerator object that can provide read-only access to the characters in this instance of String

GetHashCode

[C#] public override int GetHashCode();

1	[C++] public: int GetHashCode();
2	[VB] Overrides Public Function GetHashCode() As Integer
3	[JScript] public override function GetHashCode(): int;
4	
5	Description
6	Returns the hash code for this instance.
7	Return Value: A 32-bit signed integer hash code.
8	GetTypeCode
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10	[C#] public TypeCode GetTypeCode();
11	[C++] public:sealed TypeCode GetTypeCode();
12	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
13	[JScript] public function GetTypeCode() : TypeCode;
14	
15	Description
16	Returns the TypeCode for class String.
17	Return Value: The enumerated constant, System. TypeCode. String.
18	IndexOf
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20	[C#] public int IndexOf(char value);
21	[C++] public: int IndexOf(wchar_t value);
22	[VB] Public Function IndexOf(ByVal value As Char) As Integer
23	[JScript] public function IndexOf(value : Char) : int; Reports the index of the first
24	occurrence of a String , or one or more characters, within this instance.
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Description

Reports the index of the first occurrence of the specified Unicode character n this instance.

Return Value: A positive 32-bit signed integer, the index, that is the character position in this instance where value was found; otherwise, -1 if value was not found

Index numbering starts from zero. A Unicode character to seek.

IndexOf

[C#] public int IndexOf(string value);

[C++] public: int IndexOf(String* value);

[VB] Public Function IndexOf(ByVal value As String) As Integer

[JScript] public function IndexOf(value : String) : int;

Description

Reports the index of the first occurrence of the specified **String** in this instance.

Return Value: Value Meaning A positive index position.

The search begins at the first character position of this instance and continues until the last character position. The search is case-sensitive and uses the current culture. The **String** to seek.

IndexOf

[C#] public int IndexOf(char value, int startIndex);

[C++] public: int IndexOf(_wchar_t value, int startIndex); [VB] Public Function IndexOf(ByVal value As Char, ByVal startIndex As 2 Integer) As Integer 3 [JScript] public function IndexOf(value : Char, startIndex : int) : int; 5 Description 6 Reports the index of the first occurrence of the specified Unicode character 7 in this instance. The search starts at a specified character position. 8 Return Value: A positive 32-bit signed integer, the index, indicating the character 9 position in this instance where value was found; otherwise, -1 if value was not 10 found. 11 Index numbering starts from zero. A Unicode character to seek. The search 12 starting position. 13 IndexOf 14 15 [C#] public int IndexOf(string value, int startIndex); 16 [C++] public: int IndexOf(String* value, int startIndex); 17 [VB] Public Function IndexOf(ByVal value As String, ByVal startIndex As 18 Integer) As Integer 19 [JScript] public function IndexOf(value : String, startIndex : int) : int; 20 21 Description 22 Reports the index of the first occurrence of the specified String in this 23 instance. The search starts at a specified character position. 24 Return Value: Value Meaning A positive index position. 25

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The search begins at the *startIndex* character position of this instance and continues until the last character position. The search is case-sensitive and uses the current culture. The **String** to seek. The search starting position.

IndexOf

[C#] public int IndexOf(char value, int startIndex, int count);

[C++] public: int IndexOf(_wchar_t value, int startIndex, int count);

[VB] Public Function IndexOf(ByVal value As Char, ByVal startIndex As Integer,

ByVal count As Integer) As Integer

[JScript] public function IndexOf(value : Char, startIndex : int, count : int) : int;

Description

Reports the index of the first occurrence of the specified character in this instance. The search starts at a specified character position and examines a specified number of character positions.

Return Value: A positive 32-bit signed integer, the index, that is the character position in this instance where value was found; otherwise, -1 if value was not found.

The search begins at *startIndex* and continues until *count* -1. The character at *count* is not included in the search. A Unicode character to seek. The search starting position. The number of character positions to examine.

IndexOf

[C#] public int IndexOf(string value, int startIndex, int count);

[C++] public: int IndexOf(String* value, int startIndex, int count);

[VB] Public Function IndexOf(ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer) As Integer

[JScript] public function IndexOf(value : String, startIndex : int, count : int) : int;

Description

Reports the index of the first occurrence of the specified **String** in this instance. The search starts at a specified character position and examines a specified number of character positions.

Return Value: Value Meaning A positive index position.

The search begins at the *startIndex* character position and continues for *count* character positions. The search is case-sensitive and uses the current culture. The **String** to seek. The search starting position. The number of character positions to examine.

IndexOfAny

[C#] public int IndexOfAny(char[] anyOf);

[C++] public: int IndexOfAny(__wchar_t anyOf __gc[]);

[VB] Public Function IndexOfAny(ByVal anyOf() As Char) As Integer [JScript] public function IndexOfAny(anyOf: Char[]): int; Reports the index of the first occurrence in this instance of any character in a specified array of

Unicode characters.

Description

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Reports the index of the first occurrence in this instance of any character in a specified array of Unicode characters.

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Return Value: The positive integer index of the first occurrence in this instance where any character in anyOf was found; otherwise, -1 if no character in anyOf was found.

Index numbering starts from zero. A Unicode character array containing one or more characters to seek.

IndexOfAny

[C#] public int IndexOfAny(char[] anyOf, int startIndex);

[C++] public: int IndexOfAny(__wchar_t anyOf __gc[], int startIndex);

[VB] Public Function IndexOfAny(ByVal anyOf() As Char, ByVal startIndex As Integer) As Integer

[JScript] public function IndexOfAny(anyOf: Char[], startIndex: int): int;

Description

Reports the index of the first occurrence in this instance of any character in a specified array of Unicode characters. The search starts at a specified character position.

Return Value: The positive integer index of the first occurrence in this instance where any character in anyOf was found; otherwise, -1 if no character in anyOf was found.

Index numbering starts from zero. A Unicode character array containing one or more characters to seek. The search starting position.

IndexOfAny

[C#] public int IndexOfAny(char[] anyOf, int startIndex, int count);

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As String

[C++] public: int IndexOfAny(_wchar_t anyOf _gc[], int startIndex, int count); [VB] Public Function IndexOfAny(ByVal anyOf() As Char, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public function IndexOfAny(anyOf: Char[], startIndex: int, count: int): int, Description Reports the index of the first occurrence in this instance of any character in a specified array of Unicode characters. The search starts at a specified character position and examines a specified number of character positions. Return Value: The positive integer index of the first occurrence in this instance where any character in anyOf was found; otherwise, -1 if no character in anyOf was found. The search begins at startIndex and continues until count -1. The character at count is not included in the search. A Unicode character array containing one or more characters to seek. The search starting position. The number of character positions to examine. Insert [C#] public string Insert(int startIndex, string value); [C++] public: String* Insert(int startIndex, String* value); [VB] Public Function Insert(ByVal startIndex As Integer, ByVal value As String)

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[JScript] public function Insert(startIndex : int, value : String) : String;

Description

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Inserts a specified instance of **String** at a specified index position in this instance.

Return Value: A new **String** equivalent to this instance but with value inserted at position startIndex.

If startIndex is equal to the length of this instance, value is appended to the end of this instance. The index position of the insertion. The **String** to insert.

Intern

[C#] public static string Intern(string str);

[C++] public: static String* Intern(String* str);

[VB] Public Shared Function Intern(ByVal str As String) As String

[JScript] public static function Intern(str : String) : String;

Description

Retrieves the system's reference to the specified **String**.

Return Value: The String reference to str.

The common language runtime automatically maintains a table, called the "intern pool", which contains a single instance of each unique literal string constant declared in a program, as well as any unique instance of **String** you add programmatically. A **String**, or **null**.

IsInterned

[C#] public static string IsInterned(string str);

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[C++] public: static String* IsInterned(String* str); [VB] Public Shared Function IsInterned(ByVal str As String) As String [JScript] public static function IsInterned(str : String) : String; Description Retrieves a reference to a specified String. Return Value: A String reference to str if it is in the common language runtime "intern pool"; otherwise null. The common language runtime automatically maintains a table, called the "intern pool", which contains a single instance of each unique literal string constant declared in a program, as well as any unique instance of String you add programmatically. A String. Join [C#] public static string Join(string separator, string[] value); [C++] public: static String* Join(String* separator, String* value __gc[]); [VB] Public Shared Function Join(ByVal separator As String, ByVal value() As String) As String [JScript] public static function Join(separator : String, value : String[]) : String; Concatenates a specified separator String between each element of a specified String array, yielding a single concatenated string. Description

Concatenates a specified separator **String** between each element of a specified **String** array, yielding a single concatenated string.

Return Value: A **String** consisting of the elements of value interspersed with the separator string.

For example if *separator* is ", " and the elements of *value* are "apple", "orange", "grape", and "pear", Join(separator, value) returns "apple, orange, grape, pear". A **System.String**. An array of **Strings**.

Join

[C#] public static string Join(string separator, string[] value, int startIndex, int count);

[C++] public: static String* Join(String* separator, String* value __gc[], int startIndex, int count);

[VB] Public Shared Function Join(ByVal separator As String, ByVal value() As String, ByVal startIndex As Integer, ByVal count As Integer) As String
[JScript] public static function Join(separator : String, value : String[], startIndex : int, count : int) : String;

Description

Concatenates a specified separator **String** between each element of a specified **String** array, yielding a single concatenated string. Parameters specify the first array element and number of elements to use.

Return Value: A String consisting of the strings in value joined by separator.

For example if *separator* is ", " and the elements of *value* are "apple", "orange", "grape", and "pear", Join(separator, value, 1, 2) returns "orange, grape". A **System.String**. An array of **String**. The first array element in *value* to use. The number of elements of *value* to use.

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LastIndexOf

[C#] public int LastIndexOf(char value);

[C++] public: int LastIndexOf(__wchar_t value);

[VB] Public Function LastIndexOf(ByVal value As Char) As Integer

[JScript] public function LastIndexOf(value : Char) : int; Reports the index position of the last occurrence of a specified Unicode character or **String** within this instance.

Description

Reports the index position of the last occurrence of a specified Unicode character within this instance.

Return Value: The index position of value if that character is found, or -1 if it is not.

This method begins searching at the last character position of this instance and precedes backwards towards the beginning until either *value* is found or the first character position has been examined. The search is case-sensitive. A Unicode character to seek.

LastIndexOf

[C#] public int LastIndexOf(string value);

[C++] public: int LastIndexOf(String* value);

[VB] Public Function LastIndexOf(ByVal value As String) As Integer

[JScript] public function LastIndexOf(value : String) : int;

Description

Reports the index position of the last occurrence of a specified **String** within this instance.

Return Value: Value Meaning A positive index position.

This method begins searching at the last character position of this instance and precedes backwards towards the beginning until either *value* is found or the first character position has been examined. The search is case-sensitive. A **String** to seek.

LastIndexOf

[C#] public int LastIndexOf(char value, int startIndex);

[C++] public: int LastIndexOf(_wchar_t value, int startIndex);

[VB] Public Function LastIndexOf(ByVal value As Char, ByVal startIndex As Integer) As Integer

[JScript] public function LastIndexOf(value : Char, startIndex : int) : int;

Description

Reports the index position of the last occurrence of a specified Unicode character within this instance. The search starts at a specified character position. *Return Value:* The index position of *value* if that character is found, or -1 if it is not.

This method begins searching at the *startIndex* character position of this instance and precedes backwards towards the beginning until either *value* is found

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or the first character position has been examined. The search is case-sensitive. A Unicode character to seek. The starting position of a substring within this instance. LastIndexOf [C#] public int LastIndexOf(string value, int startIndex); [C++] public: int LastIndexOf(String* value, int startIndex); [VB] Public Function LastIndexOf(ByVal value As String, ByVal startIndex As Integer) As Integer [JScript] public function LastIndexOf(value : String, startIndex : int) : int; Description Reports the index position of the last occurrence of a specified String 12 within this instance. The search starts at a specified character position. Return Value: Value Meaning A positive index position. 14 This method begins searching at the startIndex character position of this 15 instance and precedes backwards towards the beginning until either value is found 16 or the first character position has been examined. The search is case-sensitive. The 17 String to seek. The search starting position. 18 LastIndexOf 19 20 [C#] public int LastIndexOf(char value, int startIndex, int count); 21 [C++] public: int LastIndexOf(_wchar_t value, int startIndex, int count); 22 [VB] Public Function LastIndexOf(ByVal value As Char, ByVal startIndex As 23 Integer, ByVal count As Integer) As Integer 24

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[JScript] public function LastIndexOf(value : Char, startIndex : int, count : int) :

int;

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Description

Reports the index position of the last occurrence of the specified Unicode character in a substring within this instance. The search starts at a specified character position and examines a specified number of character positions. Return Value: The index position of value if that character is found, or -1 if it is not.

This method begins searching at the startIndex character position of this instance and precedes backwards towards the beginning until either value is found or count character positions have been examined. The search is case-sensitive. A Unicode character to seek. The starting position of a substring within this instance. The number of character positions to examine.

LastIndexOf

[C#] public int LastIndexOf(string value, int startIndex, int count);

[C++] public: int LastIndexOf(String* value, int startIndex, int count);

[VB] Public Function LastIndexOf(ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer) As Integer

[JScript] public function LastIndexOf(value : String, startIndex : int, count : int) : int;

Description

Reports the index position of the last occurrence of a specified String within this instance. The search starts at a specified character position and

examines a specified number of character positions.

Return Value: Value Meaning A positive index position.

This method begins searching at the *startIndex* character position of this instance and precedes backwards towards the beginning until either *value* is found or *count* character positions have been examined. The search is case-sensitive. The **String** to seek. The search starting position. The number of character positions to examine.

LastIndexOfAny

[C#] public int LastIndexOfAny(char[] anyOf);

[C++] public: int LastIndexOfAny(_wchar_t anyOf __gc[]);

[VB] Public Function LastIndexOfAny(ByVal anyOf() As Char) As Integer [JScript] public function LastIndexOfAny(anyOf: Char[]): int; Reports the index position of the last occurrence in this instance of one or more characters specified in a Unicode array.

Description

Reports the index position of the last occurrence in this instance of one or more characters specified in a Unicode array.

Return Value: The positive integer index of the last occurrence in this instance where any character in anyOf was found; otherwise, -1 if no character in anyOf was found.

This method begins searching at the last character position of this instance and precedes backwards towards the beginning until either a character in *anyOf* is

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found or the first character position has been examined. The search is casesensitive. A Unicode character array containing one or more characters to seek.

LastIndexOfAny

[C#] public int LastIndexOfAny(char[] anyOf, int startIndex);

[C++] public: int LastIndexOfAny(__wchar_t anyOf __gc[], int startIndex);

[VB] Public Function LastIndexOfAny(ByVal anyOf() As Char, ByVal startIndex

[JScript] public function LastIndexOfAny(anyOf: Char[], startIndex: int): int;

Description

As Integer) As Integer

Reports the index position of the last occurrence in this instance of one or more characters specified in a Unicode array. The search starts at a specified character position.

Return Value: The positive integer index of the last occurrence in this instance where any character in *anyOf* was found; otherwise, -1 if no character in *anyOf* was found.

This method begins searching at the *startIndex* character position of this instance and precedes backwards towards the beginning until either a character in *anyOf* is found or the first character position has been examined. The search is case-sensitive. A Unicode character array containing one or more characters to seek. The search starting position.

LastIndexOfAny

[C#] public int LastIndexOfAny(char[] anyOf, int startIndex, int count);

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[C++] public: int LastIndexOfAny(__wchar_t anyOf __gc[], int startIndex, int count);

[VB] Public Function LastIndexOfAny(ByVal anyOf() As Char, ByVal startIndex As Integer, ByVal count As Integer) As Integer

[JScript] public function LastIndexOfAny(anyOf: Char[], startIndex: int, count: int): int;

Description

Reports the index position of the last occurrence in this instance of one or more characters specified in a Unicode array. The search starts at a specified character position and examines a specified number of character positions.

Return Value: The positive integer index of the last occurrence in this instance where any character in anyOf was found; otherwise, -1 if no character in anyOf was found.

This method begins searching at the *startIndex* character position of this instance and precedes backwards towards the beginning until either a character in *anyOf* is found or *count* character positions have been examined. The search is case-sensitive. A Unicode character array containing one or more characters to seek. The search starting position. The number of character positions to examine.

op_Equality

[C#] public static bool operator ==(string a, string b);

[C++] public: static bool op_Equality(String* a, String* b);

[VB] returnValue = String.op_Equality(a, b)

[JScript] returnValue = a == b; Determines whether two specified instances of

String or Object have the same value.

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Determines whether two specified String objects have the same value.

Return Value: true if the value of a is the same as the value of b; otherwise, false.

This operator is implemented using the

System.String.Equals(System.Object) method, which means the comparands are tested for a combination of reference and value equality. The comparison is casesensitive. A **String** or **null**. A **String** or **null**.

op Inequality

[C#] public static bool operator !=(string a, string b);

[C++] public: static bool op_Inequality(String* a, String* b);

[VB] returnValue = String.op_Inequality(a, b)

[JScript] returnValue = a != b; Determines whether two specified instances of

String or Object have different values.

Description

Determines whether two specified **String** objects have different values. Return Value: **true** if the value of a is different than the value of b; otherwise, **false.**

This operator is implemented using the System.String.Equals(System.Object) method, which means the comparands are tested for a combination of reference and value equality. The comparison is casesensitive. A String or null. A String or null.

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[C#] public string PadLeft(int totalWidth);

character for a specified total length.

[C++] public: String* PadLeft(int totalWidth);

[VB] Public Function PadLeft(ByVal totalWidth As Integer) As String

[JScript] public function PadLeft(totalWidth: int): String; Right-aligns the characters in this instance, padding on the left with spaces or a specified Unicode

Description

Right-aligns the characters in this instance, padding with spaces on the left for a specified total length.

Return Value: A new **String** that is equivalent to this instance, but right-aligned and padded on the left with as many spaces as needed to create a length of totalWidth. The number of characters in the resulting string, equal to the number of original characters plus any additional padding characters.

PadLeft

[C#] public string PadLeft(int totalWidth, char paddingChar);

[C++] public: String* PadLeft(int totalWidth, __wchar_t paddingChar);

[VB] Public Function PadLeft(ByVal totalWidth As Integer, ByVal paddingChar

As Char) As String

[JScript] public function PadLeft(totalWidth: int, paddingChar: Char): String;

Description

Right-aligns the characters in this instance, padding on the left with a specified Unicode character for a specified total length.

Return Value: A new **String** that is equivalent to this instance, but right-aligned and padded on the left with as many paddingChar characters as needed to create a length of totalWidth. The number of characters in the resulting string, equal to the number of original characters plus any additional padding characters. A Unicode padding character.

PadRight

[C#] public string PadRight(int totalWidth);

[C++] public: String* PadRight(int totalWidth);

[VB] Public Function PadRight(ByVal totalWidth As Integer) As String [JScript] public function PadRight(totalWidth: int): String; Left-aligns the characters in this string, padding on the right with spaces or a specified Unicode character, for a specified total length.

Description

Left-aligns the characters in this string, padding with spaces on the right, for a specified total length.

Return Value: A new **String** that is equivalent to this instance, but left-aligned and padded on the right with as many spaces as needed to create a length of *totalWidth*. The number of characters in the resulting string, equal to the number of original characters plus any additional padding characters.

PadRight

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2	[C#] public string PadRight(int totalWidth, char paddingChar);
3	[C++] public: String* PadRight(int totalWidth,wchar_t paddingChar);
4	[VB] Public Function PadRight(ByVal totalWidth As Integer, ByVal paddingChar
5	As Char) As String
6	[JScript] public function PadRight(totalWidth: int, paddingChar: Char): String;
7	
8	Description
9	Left-aligns the characters in this string, padding on the right with a
10	specified Unicode character, for a specified total length.
11	Return Value: A new String that is equivalent to this instance, but left-aligned and
12	padded on the right with as many paddingChar characters as needed to create a
13	length of totalWidth. The number of characters in the resulting string, equal to the
14	number of original characters plus any additional padding characters. A Unicode
15	padding character.
16	Remove
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18	[C#] public string Remove(int startIndex, int count);
19	[C++] public: String* Remove(int startIndex, int count);
20	[VB] Public Function Remove(ByVal startIndex As Integer, ByVal count As
21	Integer) As String
22	[JScript] public function Remove(startIndex : int, count : int) : String;
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24	Description
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Deletes a specified number of characters from this instance beginning at a specified position.

Return Value: A new String that is equivalent to this instance less count number

For example, the following C# code prints "123456". The position in this instance to begin deleting characters. The number of characters to delete.

Replace

of characters.

[C#] public string Replace(char oldChar, char newChar);

[C++] public: String* Replace(_wchar_t oldChar, _wchar_t newChar);

[VB] Public Function Replace(ByVal oldChar As Char, ByVal newChar As Char)

As String

[JScript] public function Replace(oldChar: Char, newChar: Char): String; Replaces all occurrences of a specified Unicode character or **String** in this instance, with another specified Unicode character or **String**.

Description

Replaces all occurrences of a specified Unicode character in this instance with another specified Unicode character.

Return Value: A String equivalent to this instance but with all instances of oldChar replaced with newChar. A Unicode character to be replaced. A Unicode character to replace all occurrences of oldChar.

Replace

[C#] public string Replace(string oldValue, string newValue);

[C++] public: String* Replace(String* oldValue, String* newValue);[VB] Public Function Replace(ByVal oldValue As String, ByVal newValue As String) As String

[JScript] public function Replace(oldValue : String, newValue : String) : String;

Description

Replaces all occurrences of a specified **String** in this instance, with another specified **String**.

Return Value: A String equivalent to this instance but with all instances of oldValue replaced with newValue. A String to be replaced. A String to replace all occurrences of oldValue.

Split

[C++] public: String* Split(_wchar_t separator __gc[]) __gc[];
[VB] Public Function Split(ByVal ParamArray separator() As Char) As String()
[JScript] public function Split(separator : Char[]) : String[]; Identifies the substrings in this instance that are delimited by one or more characters specified in

an array, then places the substrings into a String array.

[C#] public string[] Split(params char[] separator);

Description

Identifies the substrings in this instance that are delimited by one or more characters specified in an array, then places the substrings into a **String** array.

Return Value: An array consisting of a single element containing this instance, if this instance contains none of the characters in separator.

For example: Input separator Output "42,\n12, 19" new Char[] {',', ''} {"42", "", "12", "", "19"} "42..12..19" new Char[] {'.'} {"42", "", "12", "", "19"} "Banana" new Char[] {'.'} {"Banana"} "Darb\nSmarba" new Char[] {} {"Darb", "Smarba" | "Darb\nSmarba" null {"Darb", "Smarba" | An array of Unicode characters that delimit the substrings in this instance, an empty array containing no delimiters, or null.

Split

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[C#] public string[] Split(char[] separator, int count); [C++] public: String* Split(_wchar_t separator __gc[], int count) __gc[]; [VB] Public Function Split(ByVal separator() As Char, ByVal count As Integer) As String() [JScript] public function Split(separator : Char[], count : int) : String[];

Description

Identifies the substrings in this instance that are delimited by one or more characters specified in an array, then places the substrings into a String array. A parameter specifies the maximum number of array elements to return.

Return Value: An array consisting of a single element containing this instance, if this instance contains none of the characters in separator.

If there are more than count substrings in this instance, the first count minus 1 substrings are returned in the first count minus 1 elements of the return value, and the remaining characters in this instance are returned in the last element of the return value. An array of Unicode characters that delimit the substrings in this

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instance, an empty array containing no delimiters, or null. The maximum number of array elements to return. StartsWith [C#] public bool StartsWith(string value); [C++] public: bool StartsWith(String* value); [VB] Public Function StartsWith(ByVal value As String) As Boolean [JScript] public function StartsWith(value : String) : Boolean; Description Determines whether the beginning of this instance matches the specified String. Return Value: true if value matches the beginning of this string or is System.String.Empty; otherwise false. The StartsWith method makes a comparison at the beginning of the string, determines whether it matches this current instance, and returns a System.Boolean represetation of their relationship. The specified string must match the prefix or be an empty string (i.e., equals System.String.Empty). The comparison is casesensitive. The **String** to seek. Substring [C#] public string Substring(int startIndex); [C++] public: String* Substring(int startIndex); [VB] Public Function Substring(ByVal startIndex As Integer) As String

[JScript] public function Substring(startIndex : int) : String; Retrieves a substring

from this instance.

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Retrieves a substring from this instance. The substring starts at a specified character position.

Return Value: A **String** equivalent to the substring that begins at startIndex in this instance.

The index is zero-based. The starting character position of a substring in this instance.

Substring

[C#] public string Substring(int startIndex, int length);

[C++] public: String* Substring(int startIndex, int length);

[VB] Public Function Substring(ByVal startIndex As Integer, ByVal length As Integer) As String

[JScript] public function Substring(startIndex : int, length : int) : String;

Description

Retrieves a substring from this instance. The substring starts at a specified character position and has a specified length.

Return Value: A **String** equivalent to the substring of length length that begins at startIndex in this instance.

startIndex is zero-based. The index of the start of the substring. The number of characters in the substring.

IEnumerable.GetEnumerator

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2	[C#] IEnumerator IEnumerable.GetEnumerator();
3	[C++] IEnumerator* IEnumerable::GetEnumerator();
4	[VB] Function GetEnumerator() As IEnumerator Implements
5	IEnumerable.GetEnumerator
6	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
7	IConvertible.ToBoolean
8	
9	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
10	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
11	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
12	Implements IConvertible.ToBoolean
13	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
14	IConvertible.ToByte
15	
16	[C#] byte IConvertible.ToByte(IFormatProvider provider);
17	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
18	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
19	IConvertible.ToByte
20	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
21	IConvertible.ToChar
22	
23	[C#] char IConvertible.ToChar(IFormatProvider provider);
24	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
25	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements

1	IConvertible.ToChar
2	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
3	IConvertible.ToDateTime
4	
5	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
6	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
7	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
8	Implements IConvertible.ToDateTime
9	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
10	DateTime;
11	IConvertible.ToDecimal
12	
13	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
14	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
15	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
16	Implements IConvertible.ToDecimal
17	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
18	IConvertible.ToDouble
19	
20	[C#] double IConvertible.ToDouble(IFormatProvider provider);
21	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
22	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
23	Implements IConvertible.ToDouble
24	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
25	IConvertible.ToInt16

1	
2	[C#] short IConvertible.ToInt16(IFormatProvider provider);
3	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
4	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
5	Implements IConvertible.ToInt16
6	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
7	IConvertible.ToInt32
8	
9	[C#] int IConvertible.ToInt32(IFormatProvider provider);
10	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
11	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
12	Implements IConvertible.ToInt32
13	[JScript] function IConvertible.ToInt32(provider: IFormatProvider): int;
14	IConvertible.ToInt64
15	
16	[C#] long IConvertible.ToInt64(IFormatProvider provider);
17	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
18	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
19	IConvertible.ToInt64
20	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
21	IConvertible.ToSByte
22	
23	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
24	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
25	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte

1	Implements IConvertible.ToSByte
2	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
3	IConvertible.ToSingle
4	
5	[C#] float IConvertible.ToSingle(IFormatProvider provider);
6	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
7	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
8	Implements IConvertible.ToSingle
9	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
10	IConvertible.ToType
11	
12	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
13	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
14	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
15	As Object Implements IConvertible.ToType
16	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
17	Object;
18	IConvertible.ToUInt16
19	
20	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
21	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
22	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
23	Implements IConvertible.ToUInt16
24	[JScript] function IConvertible.ToUInt16(provider : IFormatProvider) : UInt16;
25	IConvertible.ToUInt32

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1	
2	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
3	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
4	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
5	Implements IConvertible.ToUInt32
6	[JScript] function IConvertible.ToUInt32(provider: IFormatProvider): UInt32;
7	IConvertible.ToUInt64
8	
9	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
10	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
11	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
12	Implements IConvertible.ToUInt64
13	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
14	ToCharArray
15	
16	[C#] public char[] ToCharArray();
17	[C++] public:wchar_t ToCharArray()gc[];
18	[VB] Public Function ToCharArray() As Char()
19	[JScript] public function ToCharArray(): Char[]; Copies the characters in this
20	instance to a Unicode character array.
21	
22	Description
23	Copies the characters in this instance to a Unicode character array.
24	Return Value: A Unicode character array whose elements are the individual
25	characters of this instance.

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[C#] public char[] ToCharArray(int startIndex, int length);

[C++] public: wchar_t ToCharArray(int startIndex, int length) __gc[];

[VB] Public Function ToCharArray(ByVal startIndex As Integer, ByVal length As Integer) As Char()

[JScript] public function ToCharArray(startIndex : int, length : int) : Char[];

Description

Copies the characters in a specified substring in this instance to a Unicode character array.

Return Value: A Unicode character array whose elements are the length number of characters in this instance starting from character position startIndex . The starting position of a substring in this instance. The length of the substring in this instance.

ToLower

[C#] public string ToLower();

[C++] public: String* ToLower();

[VB] Public Function ToLower() As String

[JScript] public function ToLower(): String; Returns a copy of this String in lowercase.

Description

Returns a copy of this **String** in lowercase.

Return Value: A String in lowercase.

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This method takes into account the current System. Globalization. Culture Info information. **ToLower** [C#] public string ToLower(CultureInfo culture); [C++] public: String* ToLower(CultureInfo* culture); [VB] Public Function ToLower(ByVal culture As CultureInfo) As String [JScript] public function ToLower(culture : CultureInfo) : String; Description Returns a copy of this String in lowercase, taking into account specified culture-specific information. Return Value: A String in lowercase. A System. Globalization. CultureInfo object that supplies culture-specific formatting information. **ToString** [C#] public override string ToString(); [C++] public: String* ToString(); [VB] Overrides Public Function ToString() As String [JScript] public override function ToString(): String; Converts the value of this instance to a String.

Description

Returns this instance of String; no actual conversion is performed.

Return Value: This String.

1	ToString
2	
3	[C#] public string ToString(IFormatProvider provider);
4	[C++] public:sealed String* ToString(IFormatProvider* provider);
5	[VB] NotOverridable Public Function ToString(ByVal provider As
6	IFormatProvider) As String
7	[JScript] public function ToString(provider : IFormatProvider) : String;
8	
9	Description
10	Returns this instance of String ; no actual conversion is performed.
11	Return Value: This String.
12	provider is reserved, and does not currently participate in this operation.
13	(Reserved) An System.IFormatProvider interface implementation which
14	supplies culture-specific formatting information.
15	ToUpper
16	
17	[C#] public string ToUpper();
18	[C++] public: String* ToUpper();
19	[VB] Public Function ToUpper() As String
20	[JScript] public function ToUpper(): String; Returns a copy of this String in
21	uppercase.
22	
23	Description
24	Returns a copy of this String in uppercase, using default properties.
25	Return Value: A new string in uppercase.

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This method takes into account the current System. Globalization. Culture Info information. ToUpper [C#] public string ToUpper(CultureInfo culture); [C++] public: String* ToUpper(CultureInfo* culture); [VB] Public Function ToUpper(ByVal culture As CultureInfo) As String [JScript] public function ToUpper(culture : CultureInfo) : String; Description Returns a copy of this String in uppercase, taking into account culturespecific information. Return Value: A String in uppercase. A System. Globalization. Culture Info object that supplies culture-specific formatting information. Trim [C#] public string Trim(); [C++] public: String* Trim(); [VB] Public Function Trim() As String [JScript] public function Trim(): String;

Description

Removes all occurrences of white space characters from the beginning and end of this instance.

23

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Return Value: A new String equivalent to this instance after white space characters are removed.

This method defines white space characters as hexadecimal 0x9, 0xA, 0xB, 0xC, 0xD, 0x20, 0xA0, 0x2000, 0x2001, 0x2002, 0x2003, 0x2004, 0x2005,0x2006, 0x2007, 0x2008, 0x2009, 0x200A, 0x200B, 0x3000, and 0xFEFF.

Trim

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[C#] public string Trim(params char[] trimChars);

[C++] public: String* Trim(_wchar_t trimChars __gc[]);

[VB] Public Function Trim(ByVal ParamArray trimChars() As Char) As String [JScript] public function Trim(trimChars : Char[]) : String; Removes all occurrences of a set of specified characters from the beginning and end of this instance.

Description

Removes all occurrences of a set of characters specified in a Unicode character array from the beginning and end of this instance.

Return Value: The String that remains after all occurrences of the characters in trimChars are removed. If trimChars is null, white space characters are removed instead.

This method defines white space characters as hexadecimal 0x9, 0xA, 0xB, 0xC, 0xD, 0x20, 0xA0, 0x2000, 0x2001, 0x2002, 0x2003, 0x2004, 0x2005, 0x2006, 0x2007, 0x2008, 0x2009, 0x200A, 0x200B, 0x3000, and 0xFEFF. An array of Unicode characters to be removed or null.

TrimEnd

1	
2	[C#] public string TrimEnd(params char[] trimChars);
3	[C++] public: String* TrimEnd(wchar_t trimCharsgc[]);
4	[VB] Public Function TrimEnd(ByVal ParamArray trimChars() As Char) As
5	String
6	[JScript] public function TrimEnd(trimChars : Char[]) : String;
7	
8	Description
9	Removes all occurrences of a set of characters specified in a Unicode
10	character array from the end of this instance.
11	Return Value: The String that remains after all occurrences of the characters in
12	trimChars are removed. If trimChars is null, white space characters are removed
13	instead.
14	This method defines white space characters as hexadecimal 0x9, 0xA, 0xE
15	0xC, 0xD, 0x20, 0xA0, 0x2000, 0x2001, 0x2002, 0x2003, 0x2004, 0x2005,
16	0x2006, 0x2007, 0x2008, 0x2009, 0x200A, 0x200B, 0x3000, and 0xFEFF. An
17	array of Unicode characters to be removed or null.
18	TrimStart
19	
20	[C#] public string TrimStart(params char[] trimChars);
21	[C++] public: String* TrimStart(wchar_t trimCharsgc[]);
22	[VB] Public Function TrimStart(ByVal ParamArray trimChars() As Char) As
23	String
24	[JScript] public function TrimStart(trimChars : Char[]) : String;
25	

Description

Removes all occurrences of a set of characters specified in a Unicode character array from the beginning of this instance.

Return Value: The **String** that remains after all occurrences of characters in trimChars are removed. If trimChars is **null**, white space characters are removed instead.

This method defines white space characters as hexadecimal 0x9, 0xA, 0xB, 0xC, 0xD, 0x20, 0xA0, 0x2000, 0x2001, 0x2002, 0x2003, 0x2004, 0x2005, 0x2006, 0x2007, 0x2008, 0x2009, 0x200A, 0x200B, 0x3000, and 0xFEFF. An array of Unicode characters to be removed or **null**.

SystemException class (System)

TrimStart

Description

Defines the base class for predefined exceptions in the System namespace.

System.SystemException is thrown by the common language runtime when errors occur that are nonfatal and recoverable by user programs. These errors result from failed runtime check (such as an array out-of-bound error), and can occur during the execution of any method.

SystemException

Example Syntax:

TrimStart

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1	
2	[C#] public SystemException();
3	[C++] public: SystemException();
4	[VB] Public Sub New()
5	[JScript] public function SystemException(); Initializes a new instance of the
6	System.SystemException class.
7	
8	Description
9	Initializes a new instance of the System.SystemException class with
10	default properties.
11	The following table shows the initial property values for an instance of
12	System.SystemException .
13	SystemException
14	Example Syntax:
15	TrimStart
16	
17	[C#] public SystemException(string message);
18	[C++] public: SystemException(String* message);
19	[VB] Public Sub New(ByVal message As String)
20	[JScript] public function SystemException(message : String);
21	
22	Description
23	Initializes a new instance of the System.SystemException class with a
24	specified error message.
25	

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The following table shows the initial property values for an instance of **System.SystemException**. The error message that explains the reason for the exception.

SystemException

Example Syntax:

TrimStart

[C#] protected SystemException(SerializationInfo info, StreamingContext context);

[C++] protected: SystemException(SerializationInfo* info, StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function SystemException(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.SystemException** class with serialized data.

This constructor is called during descrialization to reconstitute the exception object transmitted over a stream. For more information, see . The object that holds the serialized object data. The contextual information about the source or destination.

SystemException

Example Syntax:

25

TrimStart

[C#] public SystemException(string message, Exception innerException);
[C++] public: SystemException(String* message, Exception* innerException);
[VB] Public Sub New(ByVal message As String, ByVal innerException As
Exception)
[JScript] public function SystemException(message : String, innerException :

Description

Exception);

Initializes a new instance of the **System.SystemException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

1	Source
2	StackTrace
3	TargetSite
4	ThreadStaticAttribute class (System)
5	ToString
6	
7	
8	Description
9	Indicates that the value of a static field is unique for each thread.
10	A static field marked with System. Thread Static Attribute is not shared
11	between threads. Each executing thread has a separate instance of the static field,
12	and independently set and get values for that field. If the static field is accessed on
13	a different thread, it will contain a different value.
14	ThreadStaticAttribute
15	Example Syntax:
16	ToString
17	
18	[C#] public ThreadStaticAttribute();
19	[C++] public: ThreadStaticAttribute();
20	[VB] Public Sub New()
21	[JScript] public function ThreadStaticAttribute();
22	
23	Description
24	Initializes a new instance of the System. Thread Static Attribute class.
25	TypeId

TimeSpan structure (System)

ToString

Description

Represents a time interval.

The value of an instance of **TimeSpan** represents a period of time. That value is the number of "ticks" contained in the instance. A tick is the smallest unit of time that can be specified, and is equal to 100 nanoseconds. Both the specification of a number of ticks and the value of a **TimeSpan** can be positive or negative.

ToString

[C#] public static readonly TimeSpan MaxValue;

[C++] public: static TimeSpan MaxValue;

[VB] Public Shared ReadOnly MaxValue As TimeSpan

[JScript] public static var MaxValue : TimeSpan;

Description

A constant whose value is the maximum TimeSpan value.

The value of this constant is equivalent to System.Int64.MaxValue ticks.

The string representation of this value is positive 10675199.02:48:05.4775807.

ToString

[C#] public static readonly TimeSpan MinValue;

1	[C++] public: static TimeSpan MinValue;
2	[VB] Public Shared ReadOnly MinValue As TimeSpan
3	[JScript] public static var MinValue : TimeSpan;
4	
5	Description
6	A constant whose value is the minimum TimeSpan value.
7	The value of this constant is equivalent to System.Int64.MinValue ticks.
8	The string representation of this value is negative 10675199.02:48:05.4775808.
9	ToString
10	
11	[C#] public const long TicksPerDay;
12	[C++] public: constint64 TicksPerDay;
13	[VB] Public Const TicksPerDay As Long
14	[JScript] public var TicksPerDay : long;
15	
16	Description
17	A constant whose value is the number of ticks equivalent to 1 day.
18	The value of this constant is 864 billion; that is, 864000000000.
19	ToString
20	
21	[C#] public const long TicksPerHour;
22	[C++] public: constint64 TicksPerHour;
23	[VB] Public Const TicksPerHour As Long
24	[JScript] public var TicksPerHour : long;
25	

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2	Description
3	A constant whose value is the number of ticks equivalent to 1 hour.
4	The value of this constant is 36 billion; that is, 36000000000.
5	ToString
6	
7	[C#] public const long TicksPerMillisecond;
8	[C++] public: constint64 TicksPerMillisecond;
9	[VB] Public Const TicksPerMillisecond As Long
10	[JScript] public var TicksPerMillisecond : long;
11	
12	Description
13	A constant whose value is the number of ticks equivalent to 1 millisecond.
14	The value of this constant is 10 thousand; that is, 10000.
15	ToString
16	
17	[C#] public const long TicksPerMinute;
18	[C++] public: constint64 TicksPerMinute;
19	[VB] Public Const TicksPerMinute As Long
20	[JScript] public var TicksPerMinute : long;
21	
22	Description
23	A constant whose value is the number of ticks equivalent to 1 minute.
24	The value of this constant is 600 million; that is, 600000000.
25	ToString

1	
2	[C#] public const long TicksPerSecond;
3	[C++] public: constint64 TicksPerSecond;
4	[VB] Public Const TicksPerSecond As Long
5	[JScript] public var TicksPerSecond : long;
6	
7	Description
8	A constant whose value is the number of ticks equivalent to 1 second.
9	The value of this constant is 10 million; that is, 10000000.
10	ToString
11	
12	[C#] public static readonly TimeSpan Zero;
13	[C++] public: static TimeSpan Zero;
14	[VB] Public Shared ReadOnly Zero As TimeSpan
15	[JScript] public static var Zero : TimeSpan;
16	
17	Description
18	A constant whose value is the zero TimeSpan value.
19	This constant provides a convenient source for zero in time calculations
20	TimeSpan
21	Example Syntax:
22	ToString
23	
24	[C#] public TimeSpan(long ticks);
25	[C++] public: TimeSpan(int64 ticks);

1	[VB] Public Sub New(ByVal ticks As Long)
2	[JScript] public function TimeSpan(ticks: long); Initializes a new instance of the
3	TimeSpan class.
4	
5	Description
6	Initializes a new instance of the TimeSpan class to the specified number of
7	ticks. A time period in the form of ticks.
8	TimeSpan
9	Example Syntax:
10	ToString
11	
12	[C#] public TimeSpan(int hours, int minutes, int seconds);
13	[C++] public: TimeSpan(int hours, int minutes, int seconds);
14	[VB] Public Sub New(ByVal hours As Integer, ByVal minutes As Integer, ByVal
15	seconds As Integer)
16	[JScript] public function TimeSpan(hours: int, minutes: int, seconds: int);
17	
18	Description
19	Initializes a new instance of the TimeSpan class to a specified number of
20	hours, minutes, and seconds.
21	The specified hours, minutes, and seconds are converted to ticks, and that
22	value initializes this instance. Number of hours. Number of minutes. Number of
23	seconds.
24	TimeSpan
25	Example Syntax:

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10	Sti	ring
10		

[C#] public TimeSpan(int days, int hours, int minutes, int seconds);

[C++] public: TimeSpan(int days, int hours, int minutes, int seconds);

[VB] Public Sub New(ByVal days As Integer, ByVal hours As Integer, ByVal minutes As Integer, ByVal seconds As Integer)

[JScript] public function TimeSpan(days: int, hours: int, minutes: int, seconds: int);

Description

Initializes a new instance of the **TimeSpan** class to a specified number of days, hours, minutes, and seconds.

The specified *days*, *hours*, *minutes*, and *seconds* are converted to ticks, and that value initializes this instance. Number of days. Number of hours. Number of minutes. Number of seconds.

TimeSpan

Example Syntax:

ToString

[C#] public TimeSpan(int days, int hours, int minutes, int seconds, int milliseconds);

[C++] public: TimeSpan(int days, int hours, int minutes, int seconds, int milliseconds);

[VB] Public Sub New(ByVal days As Integer, ByVal hours As Integer, ByVal minutes As Integer, ByVal seconds As Integer, ByVal milliseconds As Integer)

[JScript] public function TimeSpan(days: int, hours: int, minutes: int, seconds: int, milliseconds: int);

Description

Initializes a new instance of the **TimeSpan** class to a specified number of days, hours, minutes, seconds, and milliseconds.

The specified *days*, *hours*, *minutes*, *seconds*, and *milliseconds* are converted to ticks, and that value initializes this instance. Number of days. Number of hours. Number of minutes. Number of seconds. Number of milliseconds.

Days

ToString

[C#] public int Days {get;}

[C++] public: _property int get_Days();

[VB] Public ReadOnly Property Days As Integer

[JScript] public function get Days(): int;

Description

Gets the number of whole days represented by this instance.

DateTime values can be represented as expressions of the form "d.hh:mm:ss.ff" where the "d" component is days, "hh" is hours, "mm" is minutes, "ss" is seconds, and "ff" is fractions of a second. The value of this property is the days component.

Hours

1	ToString
2	
3	[C#] public int Hours {get;}
4	[C++] public:property int get_Hours();
5	[VB] Public ReadOnly Property Hours As Integer
6	[JScript] public function get Hours(): int;
7	
8	Description
9	Gets the number of whole hours represented by this instance.
10	DateTime values can be represented as expressions of the form
11	"d.hh:mm:ss.ff" where the "d" component is days, "hh" is hours, "mm" is minutes,
12	"ss" is seconds, and "ff" is fractions of a second. The value of this property is the
13	hours component.
14	Milliseconds
15	ToString
16	
17	[C#] public int Milliseconds {get;}
18	[C++] public:property int get_Milliseconds();
19	[VB] Public ReadOnly Property Milliseconds As Integer
20	[JScript] public function get Milliseconds(): int;
21	
22	Description
23	Gets the number of whole milliseconds represented by this instance.
24	DateTime values can be represented as expressions of the form
25	"d.hh:mm:ss.ff" where the "d" component is days, "hh" is hours, "mm" is minutes,

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1	"ss" is seconds, and "ff" is fractions of a second. The value of this property is the
2	fractions of a second component expressed in milliseconds.
3	Minutes
4	ToString
5	
6	[C#] public int Minutes {get;}
7	[C++] public:property int get_Minutes();
8	[VB] Public ReadOnly Property Minutes As Integer
9	[JScript] public function get Minutes(): int;
10	
11	Description
12	Gets the number of whole minutes represented by this instance.
13	DateTime values can be represented as expressions of the form
14	"d.hh:mm:ss.ff" where the "d" component is days, "hh" is hours, "mm" is minutes,
15	"ss" is seconds, and "ff" is fractions of a second. The value of this property is the
16	minutes component.
17	Seconds
18	ToString
19	
20	[C#] public int Seconds {get;}
21	[C++] public:property int get_Seconds();
22	[VB] Public ReadOnly Property Seconds As Integer
23	[JScript] public function get Seconds(): int;
24	
25	Description

1	Gets the number of whole seconds represented by this instance.
2	DateTime values can be represented as expressions of the form
3	"d.hh:mm:ss.ff" where the "d" component is days, "hh" is hours, "mm" is minutes.
4	"ss" is seconds, and "ff" is fractions of a second. The value of this property is the
5	seconds component.
6	Ticks
7	ToString
8	
9	[C#] public long Ticks {get;}
10	[C++] public:propertyint64 get_Ticks();
11	[VB] Public ReadOnly Property Ticks As Long
12	[JScript] public function get Ticks(): long;
13	
14	Description
15	Gets the value of this instance in ticks.
16	The smallest unit of time is the "tick," which is equal to 100-nanoseconds.
17	A tick can be negative or positive.
18	TotalDays
19	ToString
20	
21	[C#] public double TotalDays {get;}
22	[C++] public:property double get_TotalDays();
23	[VB] Public ReadOnly Property TotalDays As Double
24	[JScript] public function get TotalDays(): double;
25	
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1	
2	Description
3	Gets the value of this instance expressed in whole and fractional days.
4	TotalHours
5	ToString
6	
7	[C#] public double TotalHours {get;}
8	[C++] public:property double get_TotalHours();
9	[VB] Public ReadOnly Property TotalHours As Double
10	[JScript] public function get TotalHours() : double;
11	
12	Description
13	Gets the value of this instance expressed in whole and fractional hours
14	TotalMilliseconds
15	ToString
16	
17	[C#] public double TotalMilliseconds {get;}
18	[C++] public:property double get_TotalMilliseconds();
19	[VB] Public ReadOnly Property TotalMilliseconds As Double
20	[JScript] public function get TotalMilliseconds() : double;
21	
22	Description
23	Gets the value of this instance expressed in whole and fractional
24	milliseconds.
25	TotalMinutes

1	ToString
2	
3	[C#] public double TotalMinutes {get;}
4	[C++] public:property double get_TotalMinutes();
5	[VB] Public ReadOnly Property TotalMinutes As Double
6	[JScript] public function get TotalMinutes(): double;
7	
8	Description
9	Gets the value of this instance expressed in whole and fractional minutes.
10	TotalSeconds
11	ToString
12	
13	[C#] public double TotalSeconds {get;}
14	[C++] public:property double get_TotalSeconds();
15	[VB] Public ReadOnly Property TotalSeconds As Double
16	[JScript] public function get TotalSeconds(): double;
17	
18	Description
19	Gets the value of this instance expressed in whole and fractional seconds.
20	Add
21	
22	[C#] public TimeSpan Add(TimeSpan ts);
23	[C++] public: TimeSpan Add(TimeSpan ts);
24	[VB] Public Function Add(ByVal ts As TimeSpan) As TimeSpan
25	[JScript] public function Add(ts : TimeSpan) : TimeSpan;

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Descrip	2
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System	7
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tion

Adds the specified **TimeSpan** to this instance.

Value: A TimeSpan that represents the value of this instance plus the fts.

The result must be between System.TimeSpan.MinValue and .TimeSpan.MaxValue, otherwise an exception is thrown. A TimeSpan e.

Compare

[C#] public static int Compare(TimeSpan t1, TimeSpan t2);

[C++] public: static int Compare(TimeSpan t1, TimeSpan t2);

[VB] Public Shared Function Compare(ByVal t1 As TimeSpan, ByVal t2 As

TimeSpan) As Integer

[JScript] public static function Compare(t1: TimeSpan, t2: TimeSpan): int;

Description

Compares two TimeSpan values and returns an integer that indicates their relationship.

Return Value: Value Condition -1 t1 is less than t2 0 t1 is equal to t2 1 t1 is greater than t2 The first TimeSpan instance. The second TimeSpan instance.

CompareTo

[C#] public int CompareTo(object value);

[C++] public: __sealed int CompareTo(Object* value);

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1	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
2	Integer
3	[JScript] public function CompareTo(value : Object) : int;
4	
5	Description
6	Compares this instance to a specified object and returns an indication of
7	their relative values.
8	Return Value: Value Condition -1 The value of this instance is less than the value
9	of value .
10	Any instance of TimeSpan, regardless of its value, is considered greater
11	than null. An object to compare, or null.
12	Duration
13	
14	[C#] public TimeSpan Duration();
15	[C++] public: TimeSpan Duration();
16	[VB] Public Function Duration() As TimeSpan
17	[JScript] public function Duration(): TimeSpan;
18	
19	Description
20	Returns a TimeSpan whose value is the absolute value of this instance.
21	Return Value: A TimeSpan whose value is the value of this instance and
22	converted if necessary to a positive number.
23	The value of a TimeSpan , which is the number of ticks it contains, can be
24	positive or negative.
25	Equals

1 [C#] public override bool Equals(object value); 2 [C++] public: bool Equals(Object* value); 3 [VB] Overrides Public Function Equals(ByVal value As Object) As Boolean [JScript] public override function Equals(value : Object) : Boolean; Returns a 5 value indicating whether two instances of TimeSpan are equal. 6 7 Description 8 Returns a value indicating whether this instance is equal to a specified 9 object. 10 Return Value: true if value is a TimeSpan that represents the same time as this 11 instance; otherwise, false. An object to compare with this instance. 12 **Equals** 13 14 [C#] public static new bool Equals(TimeSpan t1, TimeSpan t2); 15 [C++] public: static bool Equals(TimeSpan t1, TimeSpan t2); 16 [VB] Shadows Public Shared Function Equals(ByVal t1 As TimeSpan, ByVal t2 17 As TimeSpan) As Boolean 18 $[JScript]\ public\ static\ hide\ function\ Equals (t1:TimeSpan,\ t2:TimeSpan):$ 19 Boolean; 20 21 Description 22 Returns a value indicating whether two specified instances of TimeSpan 23 are equal. 24

Return Value: true if the values of t1 and t2 are equal; otherwise, false. An 1 instance of TimeSpan. An instance of TimeSpan. 2 FromDays 3 [C#] public static TimeSpan FromDays(double value); 5 [C++] public: static TimeSpan FromDays(double value); 6 [VB] Public Shared Function FromDays(ByVal value As Double) As TimeSpan 7 [JScript] public static function FromDays(value : double) : TimeSpan; 8 9 Description 10 Returns a TimeSpan that represents a specified number of days, where the 11 specification is accurate to the nearest millisecond. 12 Return Value: A TimeSpan that represents value. 13 If value is System.Double.PositiveInfinity, 14 System.TimeSpan.MaxValue is returned. If value is 15 System.Double.NegativeInfinity or System.Double.NaN, 16 System.TimeSpan.MinValue is returned. A number of days, accurate to the 17 nearest millisecond. 18 FromHours 19 20 [C#] public static TimeSpan FromHours(double value); 21 [C++] public: static TimeSpan FromHours(double value); 22 [VB] Public Shared Function FromHours(ByVal value As Double) As TimeSpan 23 [JScript] public static function FromHours(value : double) : TimeSpan; 24

1	
2	Description
3	Returns a TimeSpan that represents a specified number of hours, where the
4	specification is accurate to the nearest millisecond.
5	Return Value: A TimeSpan that represents value.
6	If value is System.Double.PositiveInfinity,
7	System.TimeSpan.MaxValue is returned. If value is
8	System.Double.NegativeInfinity or System.Double.NaN,
9	System.TimeSpan.MinValue is returned. A number of hours accurate to the
10	nearest millisecond.
11	FromMilliseconds
12	
13	[C#] public static TimeSpan FromMilliseconds(double value);
14	[C++] public: static TimeSpan FromMilliseconds(double value);
15	[VB] Public Shared Function FromMilliseconds(ByVal value As Double) As
16	TimeSpan
17	[JScript] public static function FromMilliseconds(value : double) : TimeSpan;
18	
19	Description
20	Returns a TimeSpan that represents a specified number of milliseconds.
21	Return Value: A TimeSpan that represents value.
22	If value is System.Double.PositiveInfinity,
23	System.TimeSpan.MaxValue is returned. If value is
24	System.Double.NegativeInfinity or System.Double.NaN,
25	System.TimeSpan.MinValue is returned. A number of milliseconds.

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[C#] public static TimeSpan FromMinutes(double value);

[C++] public: static TimeSpan FromMinutes(double value);

[VB] Public Shared Function FromMinutes(ByVal value As Double) As

TimeSpan

[JScript] public static function FromMinutes(value : double) : TimeSpan;

Description

Returns a TimeSpan that represents a specified number of minutes, where the specification is accurate to the nearest millisecond.

Return Value: A TimeSpan that represents value.

If value is System.Double.PositiveInfinity,

System.TimeSpan.MaxValue is returned. If value is

System.Double.NegativeInfinity or System.Double.NaN,

System. Time Span. Min Value is returned. A number of minutes, accurate to the nearest millisecond.

FromSeconds

[C#] public static TimeSpan FromSeconds(double value);

[C++] public: static TimeSpan FromSeconds(double value);

[VB] Public Shared Function FromSeconds(ByVal value As Double) As

TimeSpan

[JScript] public static function FromSeconds(value : double) : TimeSpan;

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Returns a **TimeSpan** that represents a specified number of seconds, where the specification is accurate to the nearest millisecond.

Return Value: A TimeSpan that represents value.

If value is System.Double.PositiveInfinity,

System.TimeSpan.MaxValue is returned. If value is

System.Double.NegativeInfinity or System.Double.NaN,

System.TimeSpan.MinValue is returned. A number of seconds, accurate to the nearest millisecond.

FromTicks

[C#] public static TimeSpan FromTicks(long value);

[C++] public: static TimeSpan FromTicks(__int64 value);

[VB] Public Shared Function FromTicks(ByVal value As Long) As TimeSpan

[JScript] public static function FromTicks(value : long) : TimeSpan;

Description

Returns a **TimeSpan** that represents a specified time, where the specification is in units of ticks.

Return Value: A TimeSpan with a value of value.

This is a convenience method with the same behavior as the **System.TimeSpan.#ctor** constructor. A number of ticks that represent a time.

GetHashCode

1	
2	[C#] public override int GetHashCode();
3	[C++] public: int GetHashCode();
4	[VB] Overrides Public Function GetHashCode() As Integer
5	[JScript] public override function GetHashCode(): int;
6	
7	Description
8	Returns a hash code for this instance.
9	Return Value: A 32-bit signed integer hash code.
10	Two TimeSpan objects might have the same hash code even though they
11	represent different time values.
12	Negate
13	
14	[C#] public TimeSpan Negate();
15	[C++] public: TimeSpan Negate();
16	[VB] Public Function Negate() As TimeSpan
17	[JScript] public function Negate(): TimeSpan;
18	
19	Description
20	Returns a TimeSpan whose value is the negated value of this instance.
21	Return Value: The same numeric value as this instance, but with the opposite sign
22	op_Addition
23	
24	[C#] public static TimeSpan operator +(TimeSpan t1, TimeSpan t2);
25	[C++] public: static TimeSpan op_Addition(TimeSpan t1, TimeSpan t2);

```
[VB] returnValue = TimeSpan.op_Addition(t1, t2)
    [JScript] returnValue = t1 + t2;
2
3
    Description
           Adds two specified TimeSpan instances.
5
    Return Value: A TimeSpan whose value is the sum of the values of t1 and t2. A
6
    TimeSpan A TimeSpan
7
           op Equality
8
9
    [C#] public static bool operator ==(TimeSpan t1, TimeSpan t2);
10
    [C++] public: static bool op_Equality(TimeSpan t1, TimeSpan t2);
11
    [VB] returnValue = TimeSpan.op Equality(t1, t2)
12
    [JScript] returnValue = t1 == t2;
13
14
    Description
15
           Indicates whether two TimeSpan instances are equal.
16
    Return Value: true if the values of t1 and t2 are equal; otherwise, false. A
17
    TimeSpan A TimeSpan
18
           op GreaterThan
19
20
    [C#] public static bool operator >(TimeSpan t1, TimeSpan t2);
21
    [C++] public: static bool op_GreaterThan(TimeSpan t1, TimeSpan t2);
22
    [VB] returnValue = TimeSpan.op_GreaterThan(t1, t2)
     [JScript] returnValue = t1 > t2;
24
25
```

1	
2	Description
3	Indicates whether a specified TimeSpan is greater than another specified
4	TimeSpan.
5	Return Value: true if the value of $t1$ is greater than the value of $t2$; otherwise,
6	false . A TimeSpan A TimeSpan
7	op_GreaterThanOrEqual
8	
9	[C#] public static bool operator >=(TimeSpan t1, TimeSpan t2);
10	[C++] public: static bool op_GreaterThanOrEqual(TimeSpan t1, TimeSpan t2);
11	[VB] returnValue = TimeSpan.op_GreaterThanOrEqual(t1, t2)
12	[JScript] returnValue = t1 >= t2;
13	
14	Description
15	Indicates whether a specified TimeSpan is greater than or equal to another
16	specified TimeSpan.
17	Return Value: true if the value of $t1$ is greater than or equal to the value of $t2$;
18	otherwise, false . A TimeSpan A TimeSpan
19	op_Inequality
20	
21	[C#] public static bool operator !=(TimeSpan t1, TimeSpan t2);
22	[C++] public: static bool op_Inequality(TimeSpan t1, TimeSpan t2);
23	[VB] returnValue = TimeSpan.op_Inequality(t1, t2)
24	[JScript] returnValue = t1 != t2;
25	

1	
2	Description
3	Indicates whether two TimeSpan instances are not equal.
4	Return Value: true if the values of $t1$ and $t2$ are not equal; otherwise, false. A
5	TimeSpan A TimeSpan
6	op_LessThan
7	
8	[C#] public static bool operator
9	[C++] public: static bool op_LessThan(TimeSpan t1, TimeSpan t2);
10	[VB] returnValue = TimeSpan.op_LessThan(t1, t2)
11	[JScript] returnValue = t1 < t2;
12	
13	Description
14	Indicates whether a specified TimeSpan is less than another specified
15	TimeSpan.
16	Return Value: true if the value of $t1$ is less than the value of $t2$; otherwise, false
17	A TimeSpan A TimeSpan
18	op_LessThanOrEqual
19	
20	[C#] public static bool operator <=(TimeSpan t1, TimeSpan t2);
21	[C++] public: static bool op_LessThanOrEqual(TimeSpan t1, TimeSpan t2);
22	[VB] returnValue = TimeSpan.op_LessThanOrEqual(t1, t2)
23	[JScript] returnValue = t1 <= t2;
24	
25	Description

1	Indicates whether a specified TimeSpan is less than or equal to another
2	specified TimeSpan.
3	Return Value: true if the value of $t1$ is less than or equal to the value of $t2$;
4	otherwise, false . A TimeSpan A TimeSpan
5	op_Subtraction
6	
7	[C#] public static TimeSpan operator -(TimeSpan t1, TimeSpan t2);
8	[C++] public: static TimeSpan op_Subtraction(TimeSpan t1, TimeSpan t2);
9	[VB] returnValue = TimeSpan.op_Subtraction(t1, t2)
10	[JScript] returnValue = t1 - t2;
11	
12	Description
13	Subtracts a specified TimeSpan from another specified TimeSpan .
14	Return Value: A TimeSpan whose value is the result of the value of t1 minus the
15	value of t2. A TimeSpan A TimeSpan
16	op_UnaryNegation
17	
18	[C#] public static TimeSpan operator -(TimeSpan t);
19	[C++] public: static TimeSpan op_UnaryNegation(TimeSpan t);
20	[VB] returnValue = TimeSpan.op_UnaryNegation(t)
21	[JScript] returnValue = -t;
22	
23	Description
24	Returns a TimeSpan whose value is the negated value of the specified
25	instance.

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1	Return Value: A TimeSpan with the same numeric value as this instance, but the
2	opposite sign. A TimeSpan
3	op_UnaryPlus
4	
5	[C#] public static TimeSpan operator +(TimeSpan t);
6	[C++] public: static TimeSpan op_UnaryPlus(TimeSpan t);
7	[VB] returnValue = TimeSpan.op_UnaryPlus(t)
8	[JScript] returnValue = +t;
9	
10	Description
11	Returns the specified instance of TimeSpan.
12	Return Value: Returns t . A TimeSpan
13	Parse
14	
15	[C#] public static TimeSpan Parse(string s);
16	[C++] public: static TimeSpan Parse(String* s);
17	[VB] Public Shared Function Parse(ByVal s As String) As TimeSpan
18	[JScript] public static function Parse(s : String) : TimeSpan;
19	
20	Description
21	Constructs a TimeSpan from a time indicated by a specified String.
22	Return Value: A TimeSpan that corresponds to s .
23	s contains a specification of the form: [ws][-][d.]hh:mm:ss[.ff][ws] Items in
24	square brackets ('[' and ']') are optional, colons and periods (':' and '.') are literal
25	characters, and other items are as follows. A String .

1	Subtract
2	
3	[C#] public TimeSpan Subtract(TimeSpan ts);
4	[C++] public: TimeSpan Subtract(TimeSpan ts);
5	[VB] Public Function Subtract(ByVal ts As TimeSpan) As TimeSpan
6	[JScript] public function Subtract(ts : TimeSpan) : TimeSpan;
7	
8	Description
9	Subtracts the specified TimeSpan object from this instance.
10	Return Value: A TimeSpan whose value is the result of the value of this instance
11	minus the value of ts.
12	The result must be between System.TimeSpan.MinValue and
13	System.TimeSpan.MaxValue, otherwise an exception is thrown. A TimeSpan
14	instance.
15	ToString
16	
17	[C#] public override string ToString();
18	[C++] public: String* ToString();
19	[VB] Overrides Public Function ToString() As String
20	[JScript] public override function ToString(): String; Returns the String
21	representation of the value of this instance.
22	
23	Description
24	Returns the String representation of the value of this instance.

Return Value: A System.String that represents the value of this instance. The

1	format of the return value is of the form: [-][d.]hh:mm:ss[.ff] Items in square
2	brackets ('[' and ']') are optional, colons and periods (':' and '.') are literal
3	characters, and other items are as follows.
4	The return value of this method can be consumed by
5	System.TimeSpan.Parse(System.String).
6	TimeZone class (System)
7	ToString
8	
9	
10	Description
11	Represents a time zone.
12	A time zone is a geographical region in which the same standard time is
13	used.
14	TimeZone
15	Example Syntax:
16	ToString
17	
18	[C#] protected TimeZone();
19	[C++] protected: TimeZone();
20	[VB] Protected Sub New()
21	[JScript] protected function TimeZone();
22	
23	Description
24	Initializes a new instance of the System.TimeZone class.
25	CurrentTimeZone

1	ToString
2	
3	[C#] public static TimeZone CurrentTimeZone {get;}
4	[C++] public:property static TimeZone* get_CurrentTimeZone();
5	[VB] Public Shared ReadOnly Property CurrentTimeZone As TimeZone
6	[JScript] public static function get CurrentTimeZone(): TimeZone;
7	
8	Description
9	Gets the time zone of the current computer system.
10	DaylightName
11	ToString
12	
13	[C#] public abstract string DaylightName {get;}
14	[C++] public:property virtual String* get_DaylightName() = 0;
15	[VB] MustOverride Public ReadOnly Property DaylightName As String
16	[JScript] public abstract function get DaylightName(): String;
17	
18	Description
19	Gets the daylight saving time zone name.
20	If daylight saving time is not used in the time zone, an empty string ("") is
21	returned.
22	StandardName
23	ToString
24	
25	[C#] public abstract string StandardName {get;}

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1	[C++] public:property virtual String* get_StandardName() = 0;
2	[VB] MustOverride Public ReadOnly Property StandardName As String
• 3	[JScript] public abstract function get StandardName(): String;
4	
5	Description
6	Gets the standard time zone name.
7	GetDaylightChanges
8	
9	[C#] public abstract DaylightTime GetDaylightChanges(int year);
10	[C++] public: virtual DaylightTime* GetDaylightChanges(int year) = 0;
11	[VB] MustOverride Public Function GetDaylightChanges(ByVal year As Integer)
12	As DaylightTime
13	[JScript] public abstract function GetDaylightChanges(year : int) : DaylightTime;
14	
15	Description
16	Returns the daylight saving time period for a particular year.
17	Return Value: A System.Globalization.DaylightTime instance containing the
18	start and end date for daylight saving time in year.
19	Only one daylight saving time period per year is supported. If daylight
20	saving time is not used in the current time zone, null is returned. The year to
21	which the daylight saving time period applies.
22	GetUtcOffset
23	
24	[C#] public abstract TimeSpan GetUtcOffset(DateTime time);
25	[C++] public: virtual TimeSpan GetUtcOffset(DateTime time) = 0;
	••

[VB] MustOverride Public Function GetUtcOffset(ByVal time As DateTime) As
TimeSpan
[JScript] public abstract function GetUtcOffset(time : DateTime) : TimeSpan;

Description

Returns the coordinated universal time (UTC) offset for the specified local time.

Return Value: The UTC offset from time, measured in ticks.

Coordinated universal time (UTC) was previously known as Greenwich Mean Time (GMT). "Local time" is the date and time on the computer you are using. "Offset" is the difference between local time and UTC. That is: local time = UTC + offset *time* must be in the Gregorian calendar and the time zone represented by this instance. If *time* is in daylight saving time, this method returns the UTC offset to the daylight saving time zone. This method obtains the daylight saving time rule from the system. The local date and time.

IsDaylightSavingTime

[C#] public virtual bool IsDaylightSavingTime(DateTime time);

[C++] public: virtual bool IsDaylightSavingTime(DateTime time);

[VB] Overridable Public Function IsDaylightSavingTime(ByVal time As

DateTime) As Boolean

 $[JScript]\ public\ function\ Is Daylight Saving Time (time: Date Time): Boolean;$

Returns a value indicating whether a specified date and time is within a daylight

saving time period.

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turns a value indicating whether the specified date and time is within a daylight saving time period.

Return Value: true if time is in a daylight saving time period; false otherwise, or if time is null.

The year to which the daylight saving time period applies is derived from time. A date and time.

IsDaylightSavingTime

[C#] public static bool IsDaylightSavingTime(DateTime time, DaylightTime daylightTimes);

[C++] public: static bool IsDaylightSavingTime(DateTime time, DaylightTime* daylightTimes);

[VB] Public Shared Function IsDaylightSavingTime(ByVal time As DateTime, ByVal daylightTimes As DaylightTime) As Boolean

[JScript] public static function IsDaylightSavingTime(time: DateTime,

daylightTimes: DaylightTime): Boolean;

Description

Returns a value indicating whether the specified date and time is within the specified daylight saving time period.

Return Value: true if time is in daylightTimes; otherwise, false. A date and time.

A daylight saving time period.

ToLocalTime

- 11	
1	
2	[C#] public virtual DateTime ToLocalTime(DateTime time);
3	[C++] public: virtual DateTime ToLocalTime(DateTime time);
4	[VB] Overridable Public Function ToLocalTime(ByVal time As DateTime) As
5	DateTime
6	[JScript] public function ToLocalTime(time : DateTime) : DateTime;
7	
8	Description
9	Returns the local time that corresponds to a specified coordinated universal
10	time (UTC).
11	Return Value: A System.DateTime instance whose value is the local time that
12	corresponds to time.
13	Coordinated universal time (UTC) was previously known as Greenwich
14	Mean Time (GMT). "Local time" is the date and time on the computer you are
15	using. "Offset" is the difference between local time and GMT. That is: local time =
16	UTC + offset A UTC time.
17	ToUniversalTime
18	
19	[C#] public virtual DateTime ToUniversalTime(DateTime time);
20	[C++] public: virtual DateTime ToUniversalTime(DateTime time);
21	[VB] Overridable Public Function ToUniversalTime(ByVal time As DateTime)
22	As DateTime
23	[JScript] public function ToUniversalTime(time : DateTime) : DateTime;
24	
25	Description

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24

Returns the coordinated universal time (UTC) that corresponds to a specified local time.

Return Value: A System.DateTime instance whose value is the UTC time that corresponds to time.

Coordinated universal time (UTC) was previously known as Greenwich Mean Time (GMT). "Local time" is the date and time on the computer you are using. "Offset" is the difference between local time and UTC. That is: UTC = local time - offset The local date and time.

Type class (System)

ToUniversalTime

Description

Represents type declarations: class types, interface types, array types, value types, and enumeration types.

Type is the root of all reflection operations and the object that represents a type inside the system.

ToUniversalTime

[C#] public static readonly char Delimiter;

[C++] public: static __wchar_t Delimiter;

[VB] Public Shared ReadOnly Delimiter As Char

[JScript] public static var Delimiter : Char;

Description

1	Separates names in the namespace of the System. Type. This field is read-
2	only.
3	ToUniversalTime
4	
5	[C#] public static readonly Type[] EmptyTypes;
6	[C++] public: static Type* EmptyTypes[];
7	[VB] Public Shared ReadOnly EmptyTypes() As Type
8	[JScript] public static var EmptyTypes : Type[];
9	
10	Description
11	Represents an empty array of type System.Type . This field is read-only.
12	ToUniversalTime
13	
14	[C#] public static readonly MemberFilter FilterAttribute;
15	[C++] public: static MemberFilter* FilterAttribute;
16	[VB] Public Shared ReadOnly FilterAttribute As MemberFilter
17	[JScript] public static var FilterAttribute : MemberFilter;
18	
19	Description
20	Represents the member filter used on attributes. This field is read-only.
21	This field holds a reference to the delegate used by the
22	System.Type.FindMembers(System.Reflection.MemberTypes,System.Reflection.
23	on.BindingFlags,System.Reflection.MemberFilter,System.Object) method.
24	The method encapsulated by this delegate takes two parameters: the first is a
25	System.Reflection.MemberInfo object and the second is an Object. The method

determines whether the **MemberInfo** object matches the criteria specified by the **Object**. The **Object** may be assigned the value of any one of the fields on the classes **System.Reflection.FieldAttributes**,

 ${\bf System. Reflection. Method Attributes}\;, or \\$

 $System. Reflection. Method ImplAttributes \ .$

ToUniversalTime

[C#] public static readonly MemberFilter FilterName;

[C++] public: static MemberFilter* FilterName;

[VB] Public Shared ReadOnly FilterName As MemberFilter

[JScript] public static var FilterName: MemberFilter;

Description

Represents the case-sensitive member filter used on names. This field is read-only.

This field holds a reference to the delegate used by the System.Type.FindMembers(System.Reflection.MemberTypes,System.Reflection.BindingFlags,System.Reflection.MemberFilter,System.Object) method.

The method encapsulated by this delegate takes two parameters: the first is a System.Reflection.MemberInfo object and the second is an Object. The method determines whether the MemberInfo object matches the criteria specified by the Object. The Object is assigned a string value, which may include a trailing "*" wildcard character. Only wildcard end string matching is supported.

ToUniversalTime

1	The state of the s
2	[C#] public static readonly MemberFilter FilterNameIgnoreCase;
3	[C++] public: static MemberFilter* FilterNameIgnoreCase;
4	[VB] Public Shared ReadOnly FilterNameIgnoreCase As MemberFilter
5	[JScript] public static var FilterNameIgnoreCase : MemberFilter;
6	
7	Description
8	Represents the case-insensitive member filter used on names. This field is
9	read-only.
10	This field holds a reference to the delegate used by the
11	System. Type. Find Members (System. Reflection. Member Types, System. Reflection) and the system of the system o
12	on.BindingFlags,System.Reflection.MemberFilter,System.Object) method.
13	The method encapsulated by this delegate takes two parameters: the first is a
14	System.Reflection.MemberInfo object and the second is an Object. The method
15	determines whether the MemberInfo object matches the criteria specified by the
16	Object. The Object is assigned a string value, which may include a trailing "*"
17	wildcard character. Only wildcard end string matching is supported.
18	ToUniversalTime
19	
20	[C#] public static readonly object Missing;
21	[C++] public: static Object* Missing;
22	[VB] Public Shared ReadOnly Missing As Object
23	[JScript] public static var Missing : Object;

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25 Description

1	Represents a missing value in the System. Type information. This field is
2	read-only.
3	Use the Missing field to obtain the default value of a parameter. If the
4	Missing field is passed in for a parameter value and there is no default value for
5	that parameter, an System.ArgumentException is thrown.
6	Type
7	Example Syntax:
8	ToUniversalTime
9	
10	[C#] protected Type();
11	[C++] protected: Type();
12	[VB] Protected Sub New()
13	[JScript] protected function Type();
14	
15	Description
16	Initializes a new instance of the System. Type class.
17	This constructor is invoked by derived classes during the construction of
18	type objects.
19	Assembly
20	ToUniversalTime
21	
22	[C#] public abstract Assembly Assembly {get;}
23	[C++] public:property virtual Assembly* get_Assembly() = 0;
24	[VB] MustOverride Public ReadOnly Property Assembly As Assembly
25	[JScript] public abstract function get Assembly(): Assembly;

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1	
2	Description
3	Gets the System.Reflection.Assembly associated with a class.
4	AssemblyQualifiedName
5	ToUniversalTime
6	
7	[C#] public abstract string AssemblyQualifiedName {get;}
8	[C++] public:property virtual String* get_AssemblyQualifiedName() = 0;
9	[VB] MustOverride Public ReadOnly Property AssemblyQualifiedName As String
10	[JScript] public abstract function get AssemblyQualifiedName(): String;
11	
12	Description
13	Gets the fully qualified name of the System. Type, including the name of
14	the assembly from which the System.Type was loaded.
15	All compilers that support the common language runtime will emit the
16	simple name of a nested class, and reflection constructs a mangled name when
17	queried, in accordance with the following conventions.
18	Attributes
19	ToUniversalTime
20	
21	[C#] public TypeAttributes Attributes {get;}
22	[C++] public:property TypeAttributes get_Attributes();
23	[VB] Public ReadOnly Property Attributes As TypeAttributes
24	[JScript] public function get Attributes(): TypeAttributes;
25	

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1	
2	Description
3	Gets the attributes associated with the System.Type.
4	BaseType
5	ToUniversalTime
6	
7	[C#] public abstract Type BaseType {get;}
8	[C++] public:property virtual Type* get_BaseType() = 0;
9	[VB] MustOverride Public ReadOnly Property BaseType As Type
10	[JScript] public abstract function get BaseType(): Type;
11	
12	Description
13	Gets the type from which the current System.Type directly inherits.
14	The base type is the type from which the current type directly inherits
15	DeclaringType
16	ToUniversalTime
17	
18	[C#] public override Type DeclaringType {get;}
19	[C++] public:property virtual Type* get_DeclaringType();
20	[VB] Overrides Public ReadOnly Property DeclaringType As Type
21	[JScript] public function get DeclaringType(): Type;
22	
23	Description
24	Gets the class that declares this member.
25	

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This property implements the abstract property inherited from System.Reflection.MemberInfo. DefaultBinder **ToUniversalTime** [C#] public static Binder DefaultBinder {get;} [C++] public: __property static Binder* get_DefaultBinder(); [VB] Public Shared ReadOnly Property DefaultBinder As Binder [JScript] public static function get DefaultBinder() : Binder; Description Gets the default binder used by the system. Reflection models the accessibility rules of the common type system. For example, if the caller is in the same assembly, the caller does not need special permissions for internal members. Otherwise, the caller needs System.Security.Permissions.ReflectionPermission . This is consistent with lookup of members that are protected, private, and so on. **FullName** ToUniversalTime [C#] public abstract string FullName {get;} [C++] public: __property virtual String* get_FullName() = 0;

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[VB] MustOverride Public ReadOnly Property FullName As String

[JScript] public abstract function get FullName(): String;

Description

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Gets the fully qualified name of the **System.Type**, including the namespace of the **System.Type**.

All compilers that support the common language runtime will emit the simple name of a nested class, and reflection constructs a mangled name when queried, in accordance with the following conventions.

GUID

ToUniversalTime

[C#] public abstract Guid GUID {get;}

[C++] public: __property virtual Guid get_GUID() = 0;

[VB] MustOverride Public ReadOnly Property GUID As Guid

[JScript] public abstract function get GUID(): Guid;

Description

Gets the GUID associated with the System.Type .

HasElementType

ToUniversalTime

[C#] public bool HasElementType {get;}

[C++] public: __property bool get_HasElementType();

[VB] Public ReadOnly Property HasElementType As Boolean

[JScript] public function get HasElementType() : Boolean;

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Des	crip	tion
Des	crp	uon

Gets a value indicating whether the current **System.Type** encompasses or refers to another type; that is, whether the current **System.Type** is an array, a pointer, or is passed by reference.

For example, Type.GetType("Int32[]").HasElementType returns **true**, but Type.GetType("Int32").HasElementType returns **false**. HasElementType also returns **true** for "Int32*" and "Int32&".

IsAbstract

ToUniversalTime

[C#] public bool IsAbstract {get;}

[C++] public: __property bool get_IsAbstract();

[VB] Public ReadOnly Property IsAbstract As Boolean

[JScript] public function get IsAbstract(): Boolean;

Description

Gets a value indicating whether the **System.Type** is abstract and must be overridden.

IsAnsiClass

ToUniversalTime

[C#] public bool IsAnsiClass {get;}

[C++] public: property bool get_IsAnsiClass();

[VB] Public ReadOnly Property IsAnsiClass As Boolean

[JScript] public function get IsAnsiClass() : Boolean; 2 Description 3 Gets a value indicating whether the string format attribute AnsiClass is 4 selected for the System.Type. 5 $The \ \ System. Reflection. Type Attributes. String Format Mask\ selects\ the$ 6 string format attributes. The string format attributes enhance interoperability by 7 defining how strings should be interpreted. 8 **IsArray** 9 **ToUniversalTime** 10 11 [C#] public bool IsArray {get;} 12 [C++] public: __property bool get_IsArray(); 13 [VB] Public ReadOnly Property IsArray As Boolean 14 [JScript] public function get IsArray(): Boolean; 15 16 Description 17 Gets a value indicating whether the **System.Type** is an array. 18 An instance of the System. Array class will return false because it is an 19 object, not an array. 20 **IsAutoClass** 21 ToUniversalTime 22 23 [C#] public bool IsAutoClass {get;} [C++] public: __property bool get_IsAutoClass();

1	[VB] Public ReadOnly Property IsAutoClass As Boolean
2	[JScript] public function get IsAutoClass(): Boolean;
3	
4	Description
5	Gets a value indicating whether the string format attribute AutoClass is
6	selected for the System.Type.
7	The System.Reflection.TypeAttributes.StringFormatMask selects the
8	string format attributes. The string format attributes enhance interoperability by
9	defining how strings should be interpreted.
10	IsAutoLayout
11	ToUniversalTime
12	
13	[C#] public bool IsAutoLayout {get;}
14	[C++] public:property bool get_IsAutoLayout();
15	[VB] Public ReadOnly Property IsAutoLayout As Boolean
16	[JScript] public function get IsAutoLayout(): Boolean;
17	
18	Description
19	Gets a value indicating whether the class layout attribute AutoLayout is
20	selected for the System.Type.
21	The System.Reflection.TypeAttributes.LayoutMask is used to select the
22	class layout attributes. The class layout attributes (
23	AutoLayout, SequentialLayout and ExplicitLayout) define how the fields of the
24	class instance are laid out in memory.

IsByRef

1	ToUniversalTime
2	
3	[C#] public bool IsByRef {get;}
4	[C++] public:property bool get_IsByRef();
5	[VB] Public ReadOnly Property IsByRef As Boolean
6	[JScript] public function get IsByRef(): Boolean;
7	
8	Description
9	Gets a value indicating whether the System.Type is passed by reference.
10	IsClass
11	ToUniversalTime
12	
13	[C#] public bool IsClass {get;}
14	[C++] public:property bool get_IsClass();
15	[VB] Public ReadOnly Property IsClass As Boolean
16	[JScript] public function get IsClass(): Boolean;
17	
18	Description
19	Gets a value indicating whether the System.Type is a class; that is, not a
20	value type or interface.
21	The System.Reflection.TypeAttributes.ClassSemanticsMask
22	distinguishes a type declaration as class, interface, or value type.
23	IsCOMObject
24	ToUniversalTime
25	

1	
2	[C#] public bool IsCOMObject {get;}
3	[C++] public:property bool get_IsCOMObject();
4	[VB] Public ReadOnly Property IsCOMObject As Boolean
5	[JScript] public function get IsCOMObject(): Boolean;
6	
7	Description
8	Gets a value indicating whether the System.Type is a COM object.
9	This method returns false for COM interfaces because they are not objects.
10	COM interfaces can be implemented by Microsoft .NET Framework objects.
11	IsContextful
12	ToUniversalTime
13	
14	[C#] public bool IsContextful {get;}
15	[C++] public:property bool get_IsContextful();
16	[VB] Public ReadOnly Property IsContextful As Boolean
17	[JScript] public function get IsContextful(): Boolean;
18	
19	Description
20	Gets a value indicating whether the System. Type can be hosted in a
21	context.
22	A context intercepts calls to the class members and enforces policies that
23	are applied to the class, such as synchronization. For more detailed information on
24	remoting contexts, see System.Runtime.Remoting.Contexts.Context.
25	IsEnum

1	ToUniversalTime
2	
3	[C#] public bool IsEnum {get;}
4	[C++] public:property bool get_IsEnum();
5	[VB] Public ReadOnly Property IsEnum As Boolean
6	[JScript] public function get IsEnum(): Boolean;
7	
8	Description
9	Gets a value indicating whether the System. Type is an enumeration.
10	For example, GetType(Enum).IsEnum() returns false because
11	System.Enum is an object, not an enumeration.
12	IsExplicitLayout
13	ToUniversalTime
14	
15	[C#] public bool IsExplicitLayout {get;}
16	[C++] public:property bool get_IsExplicitLayout();
17	[VB] Public ReadOnly Property IsExplicitLayout As Boolean
18	[JScript] public function get IsExplicitLayout(): Boolean;
19	
20	Description
21	Gets a value indicating whether the class layout attribute ExplicitLayout is
22	selected for the System.Type.
23	The System.Reflection.TypeAttributes.LayoutMask is used to select the
2.4	class layout attributes. The class layout attributes (

1	AutoLayout, Sequential Layout and Explicit Layout) define how the fields of the
2	class instance are laid out in memory.
3	IsImport
4	ToUniversalTime
5	
6	[C#] public bool IsImport {get;}
7	[C++] public:property bool get_IsImport();
8	[VB] Public ReadOnly Property IsImport As Boolean
9	[JScript] public function get IsImport(): Boolean;
10	
11	Description
12	Gets a value indicating whether the System. Type was imported from
13	another class.
14	IsInterface
15	ToUniversalTime
16	
17	[C#] public bool IsInterface {get;}
18	[C++] public:property bool get_IsInterface();
19	[VB] Public ReadOnly Property IsInterface As Boolean
20	[JScript] public function get IsInterface(): Boolean;
21	
22	Description
23	Gets a value indicating whether the System.Type is an interface; that is, not
24	a class or a value type.
25	

1	The System.Reflection.TypeAttributes.ClassSemanticsMask
2	distinguishes a type declaration as class, interface or value type.
3	IsLayoutSequential
4	ToUniversalTime
5	
6	[C#] public bool IsLayoutSequential {get;}
7	[C++] public:property bool get_IsLayoutSequential();
8	[VB] Public ReadOnly Property IsLayoutSequential As Boolean
9	[JScript] public function get IsLayoutSequential(): Boolean;
10	
11	Description
12	Gets a value indicating whether the class layout attribute
13	SequentialLayout is selected for the System. Type.
14	The System.Reflection.TypeAttributes.LayoutMask is used to select the
15	class layout attributes. The class layout attributes (
16	AutoLayout, Sequential Layout and Explicit Layout) define how the fields of the
17	class instance are laid out in memory.
18	IsMarshalByRef
19	ToUniversalTime
20	
21	[C#] public bool IsMarshalByRef {get;}
22	[C++] public:property bool get_IsMarshalByRef();
23	[VB] Public ReadOnly Property IsMarshalByRef As Boolean
24	[JScript] public function get IsMarshalByRef() : Boolean;
25	

11	
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2	Description
3	Gets a value indicating whether the Type is marshaled by reference.
4	IsNestedAssembly
5	ToUniversalTime
6	
7	[C#] public bool IsNestedAssembly {get;}
8	[C++] public:property bool get_IsNestedAssembly();
9	[VB] Public ReadOnly Property IsNestedAssembly As Boolean
10	[JScript] public function get IsNestedAssembly() : Boolean;
11	
12	Description
13	Gets a value indicating whether the System.Type is nested and visible only
14	within its own assembly.
15	The System.Reflection.TypeAttributes.VisibilityMask selects the
16	visibility attributes.
17	IsNestedFamANDAssem
18	ToUniversalTime
19	
20	[C#] public bool IsNestedFamANDAssem {get;}
21	[C++] public:property bool get_IsNestedFamANDAssem();
22	[VB] Public ReadOnly Property IsNestedFamANDAssem As Boolean
23	[JScript] public function get IsNestedFamANDAssem() : Boolean;
24	
25	Description

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Gets a value indicating whether the System. Type is nested and visible only to classes that belong to both its own family and its own assembly. The System.Reflection.TypeAttributes.VisibilityMask selects the visibility attributes. IsNestedFamily ToUniversalTime [C#] public bool IsNestedFamily {get;} [C++] public: __property bool get_IsNestedFamily(); [VB] Public ReadOnly Property IsNestedFamily As Boolean [JScript] public function get IsNestedFamily(): Boolean; Description Gets a value indicating whether the System. Type is nested and visible only within its own family. The System.Reflection.TypeAttributes.VisibilityMask selects the visibility attributes. IsNestedFamORAssem ToUniversalTime [C#] public bool IsNestedFamORAssem {get;}

[C#] public bool IsNestedFamORAssem {get,}

[C++] public: __property bool get_IsNestedFamORAssem();

[VB] Public ReadOnly Property IsNestedFamORAssem As Boolean

[JScript] public function get IsNestedFamORAssem() : Boolean;

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2	Description
3	Gets a value indicating whether the System. Type is nested and visible only
4	to classes that belong to either its own family or to its own assembly.
5	The System.Reflection.TypeAttributes.VisibilityMask selects the
6	visibility attributes.
7	IsNestedPrivate
8	ToUniversalTime
9	
10	[C#] public bool IsNestedPrivate {get;}
11	[C++] public:property bool get_IsNestedPrivate();
12	[VB] Public ReadOnly Property IsNestedPrivate As Boolean
13	[JScript] public function get IsNestedPrivate(): Boolean;
14	
15	Description
16	Gets a value indicating whether the System.Type is nested and declared
17	private.
18	The System.Reflection.TypeAttributes.VisibilityMask selects the
19	visibility attributes.
20	IsNestedPublic
21	ToUniversalTime
22	
23	[C#] public bool IsNestedPublic {get;}
24	[C++] public:property bool get_IsNestedPublic();
25	[VB] Public ReadOnly Property IsNestedPublic As Boolean

1	[JScript] public function get IsNestedPublic() : Boolean;
2	
3	Description
4	Gets a value indicating whether the System. Type is nested and declared
5	public.
6	The System.Reflection.TypeAttributes.VisibilityMask selects the
7	visibility attributes.
8	IsNotPublic
9	ToUniversalTime
10	
11	[C#] public bool IsNotPublic {get;}
12	[C++] public:property bool get_IsNotPublic();
13	[VB] Public ReadOnly Property IsNotPublic As Boolean
14	[JScript] public function get IsNotPublic(): Boolean;
15	
16	Description
17	Gets a value indicating whether the top-level System.Type is not declared
18	public.
19	IsPublic and IsNotPublic get the visibility of the top-level type only.
20	IsPointer
21	ToUniversalTime
22	
23	[C#] public bool IsPointer {get;}
24	[C++] public:property bool get_IsPointer();
25	[VB] Public ReadOnly Property IsPointer As Boolean

1	[JScript] public function get IsPointer(): Boolean;
2	
3	Description
4	Gets a value indicating whether the System. Type is a pointer.
5	IsPrimitive
6	ToUniversalTime
7	
8	[C#] public bool IsPrimitive {get;}
9	[C++] public:property bool get_IsPrimitive();
10	[VB] Public ReadOnly Property IsPrimitive As Boolean
11	[JScript] public function get IsPrimitive(): Boolean;
12	
13	Description
14	Gets a value indicating whether the System.Type is one of the primitive
15	types.
16	The primitive types are System.Boolean, System.Byte, System.SByte,
17	System.Int16, System.UInt16, System.Int32, System.UInt32, System.Int64
18	System.UInt64, System.Char, System.Double, and System.Single.
19	IsPublic
20	ToUniversalTime
21	
22	[C#] public bool IsPublic {get;}
23	[C++] public:property bool get_IsPublic();
24	[VB] Public ReadOnly Property IsPublic As Boolean
25	[JScript] public function get IsPublic() : Boolean;

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1	
2	Description
3	Gets a value indicating whether the top-level System. Type is declared
4	public.
5	IsPublic and IsNotPublic get the visibility of the top-level type only.
6	IsSealed
7	ToUniversalTime
8	
9	[C#] public bool IsSealed {get;}
10	[C++] public:property bool get_IsSealed();
11	[VB] Public ReadOnly Property IsSealed As Boolean
12	[JScript] public function get IsSealed(): Boolean;
13	
14	Description
15	Gets a value indicating whether the System.Type is declared sealed.
16	IsSerializable
17	ToUniversalTime
18	
19	[C#] public bool IsSerializable {get;}
20	[C++] public:property bool get_IsSerializable();
21	[VB] Public ReadOnly Property IsSerializable As Boolean
22	[JScript] public function get IsSerializable() : Boolean;
23	
24	Description
25	Gets a value indicating whether the System.Type is serializable.

IsSpecialName

ToUniversalTime

[C#] public bool IsSpecialName {get;}

[C++] public: __property bool get_IsSpecialName();

[VB] Public ReadOnly Property IsSpecialName As Boolean

[JScript] public function get IsSpecialName(): Boolean;

Gets a value indicating whether the System. Type has a name that requires

Names that begin with or contain an underscore character (_), property accessors, and operator overloading methods are examples of types that might require special treatment by some compilers.

IsUnicodeClass

ToUniversalTime

[C#] public bool IsUnicodeClass {get;}

[C++] public: __property bool get_IsUnicodeClass();

[VB] Public ReadOnly Property IsUnicodeClass As Boolean

[JScript] public function get IsUnicodeClass(): Boolean;

Gets a value indicating whether the string format attribute UnicodeClass is selected for the System.Type.

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Description

The System.Reflection.TypeAttributes.StringFormatMask is used to select the string format attributes. The string format attributes enhance interoperability by defining how strings should be interpreted. IsValueType ToUniversalTime [C#] public bool IsValueType {get;} [C++] public: property bool get_IsValueType(); [VB] Public ReadOnly Property IsValueType As Boolean [JScript] public function get IsValueType(): Boolean; Description Gets a value indicating whether the System. Type is a value type. Value types are those that are represented as sequences of bits; value types are not classes or interfaces. These are referred to as "structs" in some programming languages. Enums are a special case of value types. MemberType **ToUniversalTime** [C#] public override MemberTypes MemberType {get;} [C++] public: __property virtual MemberTypes get_MemberType(); [VB] Overrides Public ReadOnly Property MemberType As MemberTypes [JScript] public function get MemberType(): MemberTypes;

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1	Gets a bitmask indicating the member type.
2	Module
3	ToUniversalTime
4	
5	[C#] public abstract Module Module {get;}
6	[C++] public:property virtual Module* get_Module() = 0;
7	[VB] MustOverride Public ReadOnly Property Module As Module
8	[JScript] public abstract function get Module() : Module;
9	
10	Description
11	Gets the module (the DLL) in which the current System.Type is defined.
12	Name
13	Namespace
14	ToUniversalTime
15	
16	
17	Description
18	Gets the namespace of the System.Type .
19	ReflectedType
20	ToUniversalTime
21	
22	[C#] public override Type ReflectedType {get;}
23	[C++] public:property virtual Type* get_ReflectedType();
24	[VB] Overrides Public ReadOnly Property ReflectedType As Type
25	[JScript] public function get ReflectedType(): Type;

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Gets the class object that was used to obtain this member.

This property implements the abstract property inherited from System.Reflection.MemberInfo .

TypeHandle

ToUniversalTime

[C#] public abstract RuntimeTypeHandle TypeHandle {get;}

[C++] public: __property virtual RuntimeTypeHandle get_TypeHandle() = 0;

[VB] MustOverride Public ReadOnly Property TypeHandle As

RuntimeTypeHandle

[JScript] public abstract function get TypeHandle() : RuntimeTypeHandle;

Description

Gets the handle for the current System. Type .

TypeHandle encapsulates a pointer to an internal data structure that represents the type. This handle is unique during the process lifetime. The handle is valid only in the application domain in which it was obtained.

TypeInitializer

ToUniversalTime

[C#] public ConstructorInfo TypeInitializer {get;}

[C++] public: __property ConstructorInfo* get_TypeInitializer();

[VB] Public ReadOnly Property TypeInitializer As ConstructorInfo

1	[JScript] public function get TypeInitializer(): ConstructorInfo;
2	
3	Description
4	Gets the name of the class constructor for the System.Type.
5	Class initializers are available through
6	System.Type.GetMember(System.String), System.Type.GetMembers,
7	System. Type. Find Members (System. Reflection. Member Types, System. Reflection) and the system of the system. The system of
8	$on. Binding Flags, System. Reflection. Member Filter, System. Object)\ , and$
9	System.Type.GetConstructors .
10	UnderlyingSystemType
11	ToUniversalTime
12	
13	[C#] public abstract Type UnderlyingSystemType {get;}
14	[C++] public:property virtual Type* get_UnderlyingSystemType() = 0;
15	[VB] MustOverride Public ReadOnly Property UnderlyingSystemType As Type
16	[JScript] public abstract function get UnderlyingSystemType(): Type;
17	
18	Description
19	Indicates the type provided by the common language runtime that
20	represents this type.
21	Equals
22	
23	[C#] public override bool Equals(object o);
24	[C++] public: bool Equals(Object* o);
25	[VB] Overrides Public Function Equals(ByVal o As Object) As Boolean

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[JScript] public override function Equals(o: Object): Boolean; Determines if the underlying system type of the current **System.Type** is the same as the underlying system type of the specified **System.Object** or **System.Type**.

Description

Determines if the underlying system type of the current **System.Type** is the same as the underlying system type of the specified **System.Object**.

Return Value: **true** if the underlying system type of o is the same as the underlying system type of the current **System.Type**; otherwise, **false**. The **System.Object** whose underlying system type is to be compared with the underlying system type of the current **System.Type**.

Equals

[C#] public new bool Equals(Type o);

[C++] public: bool Equals(Type* o);

[VB] Shadows Public Function Equals(ByVal o As Type) As Boolean

[JScript] public hide function Equals(o: Type): Boolean;

Description

Determines if the underlying system type of the current **System.Type** is the same as the underlying system type of the specified **System.Type**.

Return Value: **true** if the underlying system type of o is the same as the underlying system type of the current **System.Type**; otherwise, **false**. The **System.Type** whose underlying system type is to be compared with the underlying system type of the current **System.Type**.

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FindInterfaces

[C#] public virtual Type[] FindInterfaces(TypeFilter filter, object filterCriteria);
[C++] public: virtual Type* FindInterfaces(TypeFilter* filter, Object*
filterCriteria) [];
[VB] Overridable Public Function FindInterfaces(ByVal filter As TypeFilter,
ByVal filterCriteria As Object) As Type()
[JScript] public function FindInterfaces(filter : TypeFilter, filterCriteria : Object)
Type[];

Description

Returns an array of **System.Type** objects representing a filtered list of interfaces implemented or inherited by the current **System.Type** .

Return Value: An array of System. Type objects representing a filtered list of the interfaces implemented or inherited by the current System. Type.

This method can be overridden by a derived class. The **System.Reflection.TypeFilter** delegate that compares the interfaces against *filterCriteria*. The search criteria that determines whether an interface should be included in the returned array.

FindMembers

[C#] public virtual MemberInfo[] FindMembers(MemberTypes memberType,
BindingFlags bindingAttr, MemberFilter filter, object filterCriteria);
[C++] public: virtual MemberInfo* FindMembers(MemberTypes memberType,
BindingFlags bindingAttr, MemberFilter* filter, Object* filterCriteria) [];

[VB] Overridable Public Function FindMembers(ByVal memberType As
MemberTypes, ByVal bindingAttr As BindingFlags, ByVal filter As
MemberFilter, ByVal filterCriteria As Object) As MemberInfo()

[JScript] public function FindMembers(memberType: MemberTypes, bindingAttr: BindingFlags, filter: MemberFilter, filterCriteria: Object): MemberInfo[];

Description

Returns a filtered array of System.Reflection.MemberInfo objects of the specified member type.

Return Value: A filtered array of **System.Reflection.MemberInfo** objects of the specified member type.

This method can be overridden by a derived class. A MemberTypes object indicating the type of member to search for. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. The delegate that does the comparisons, returning true if the member currently being inspected matches the *filterCriteria* and false otherwise. You can use the FilterAttribute, FilterName, and FilterNameIgnoreCase delegates supplied by this class. The first uses the fields of FieldAttributes, MethodAttributes, and MethodImplAttributes as search criteria, and the other two delegates use String objects as the search criteria. The search criteria that determines whether a member is returned in the array of MemberInfo objects.

GetArrayRank

[C#] public virtual int GetArrayRank();

[C++] public: virtual int GetArrayRank();

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1	[VB] Overridable Public Function GetArrayRank() As Integer
2	[JScript] public function GetArrayRank(): int;
3	
4	Description
5	Gets the number of dimensions in an System.Array.
6	Return Value: The number of dimensions in an System.Array.
7	GetAttributeFlagsImpl
8	
9	[C#] protected abstract TypeAttributes GetAttributeFlagsImpl();
10	[C++] protected: virtual TypeAttributes GetAttributeFlagsImpl() = 0;
11	[VB] MustOverride Protected Function GetAttributeFlagsImpl() As
12	TypeAttributes
13	[JScript] protected abstract function GetAttributeFlagsImpl(): TypeAttributes;
14	
15	Description
16	When overridden in a derived class, implements the
17	System.Type.Attributes property and gets a bitmask indicating the attributes
18	associated with the System. Type.
19	Return Value: A System.Reflection.TypeAttributes object representing the
20	attribute set of the System.Type.
21	GetConstructor
22	
23	[C#] public ConstructorInfo GetConstructor(Type[] types);
24	[C++] public: ConstructorInfo* GetConstructor(Type* types[]);
25	[VB] Public Function GetConstructor(ByVal types() As Type) As ConstructorInfo

[JScript] public function GetConstructor(types : Type[]) : ConstructorInfo;

Description

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Searches for a public instance constructor whose parameters match the types in the specified array.

Return Value: A System.Reflection.ConstructorInfo object representing the public instance constructor whose parameters match the types in the parameter type array, if found; otherwise, null.

System.Type.GetConstructor(System.Reflection.BindingFlags,System. $Reflection. Binder, System. Reflection. Calling Conventions, System. Type \cite{Conventions}, Sys$ m.Reflection.ParameterModifier[]) looks for public instance constructors and cannot be used to obtain a class initializer. Class initializers are available through System.Type.GetMember(System.String), System.Type.GetMembers, System.Type.FindMembers(System.Reflection.MemberTypes,System.Reflecti on.BindingFlags,System.Reflection.MemberFilter,System.Object), System.Type.GetConstructors, and System.Type.TypeInitializer. An array of System. Type objects representing the number, order, and type of the parameters for the constructor to get.

GetConstructor

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[C#] public ConstructorInfo GetConstructor(BindingFlags bindingAttr, Binder binder, Type[] types, ParameterModifier[] modifiers);

22 23

[C++] public: ConstructorInfo* GetConstructor(BindingFlags bindingAttr,

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Binder* binder, Type* types[], ParameterModifier modifiers[]);

[VB] Public Function GetConstructor(ByVal bindingAttr As BindingFlags, ByVal

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binder As Binder, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As ConstructorInfo

[JScript] public function GetConstructor(bindingAttr : BindingFlags, binder :

Binder, types: Type[], modifiers: ParameterModifier[]): ConstructorInfo;

Description

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Searches for a constructor whose parameters match the specified argument types and modifiers, using the specified binding constraints.

Return Value: A System.Reflection.ConstructorInfo object representing the constructor that matches the specified requirements, if found; otherwise, null.

The types array and the modifiers array have the same length. A parameter specified in the types array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and enhance interoperability. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. A System.Reflection.Binder object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. An array of System. Type objects representing the number, order, and type of the parameters for the constructor to get. An array of System.Reflection.ParameterModifier objects representing the attributes associated with the corresponding element in the parameter type array.

GetConstructor

[C#] public ConstructorInfo GetConstructor(BindingFlags bindingAttr, Binder binder, CallingConventions callConvention, Type[] types, ParameterModifier[] modifiers);

[C++] public: ConstructorInfo* GetConstructor(BindingFlags bindingAttr, Binder* binder, CallingConventions callConvention, Type* types[],

ParameterModifier modifiers[]);

[VB] Public Function GetConstructor(ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal callConvention As CallingConventions, ByVal types()
As Type, ByVal modifiers() As ParameterModifier) As ConstructorInfo
[JScript] public function GetConstructor(bindingAttr : BindingFlags, binder :
Binder, callConvention : CallingConventions, types : Type[], modifiers :

ParameterModifier[]): ConstructorInfo; Gets a specific constructor of the current System.Type .

Description

Searches for a constructor whose parameters match the specified argument types and modifiers, using the specified binding constraints and the specified calling convention.

Return Value: A System.Reflection.ConstructorInfo object representing the constructor that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value

specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and enhance interoperability. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted. A **System.Reflection.Binder** object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The **System.Reflection.CallingConventions** object that specifies the set of rules to use regarding the order and layout of arguments, how the return value is passed, what registers are used for arguments, and the stack is cleaned up. An array of **System.Type** objects representing the number, order, and type of the parameters for the constructor to get. An array of

System.Reflection.ParameterModifier objects representing the attributes associated with the corresponding element in the *types* array.

GetConstructorImpl

[C#] protected abstract ConstructorInfo GetConstructorImpl(BindingFlags bindingAttr, Binder binder, CallingConventions callConvention, Type[] types, ParameterModifier[] modifiers);

[C++] protected: virtual ConstructorInfo* GetConstructorImpl(BindingFlags bindingAttr, Binder* binder, CallingConventions callConvention, Type* types[], ParameterModifier modifiers[]) = 0;

[VB] MustOverride Protected Function GetConstructorImpl(ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal callConvention As CallingConventions, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As ConstructorInfo

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[JScript] protected abstract function GetConstructorImpl(bindingAttr: BindingFlags, binder: Binder, callConvention: CallingConventions, types: Type[], modifiers: ParameterModifier[]): ConstructorInfo;

Description

When overridden in a derived class, searches for a constructor whose parameters match the specified argument types and modifiers, using the specified binding constraints and the specified calling convention.

Return Value: A System.Reflection.ConstructorInfo object representing the constructor that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and are used for interoperability. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted. A **System.Reflection.Binder** object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The **System.Reflection.CallingConventions** object that specifies the set of rules to use regarding the order and layout of arguments, how the return value is passed, what registers are used for arguments, and the stack is cleaned up. An array of **System.Type** objects representing the number, order, and type of the parameters for the constructor to get. An array of

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bindingAttr) [] = 0;

BindingFlags) As ConstructorInfo()

System.Reflection.ParameterModifier objects representing the attributes associated with the corresponding element in the types array. GetConstructors [C#] public ConstructorInfo[] GetConstructors(); [C++] public: ConstructorInfo* GetConstructors() []; [VB] Public Function GetConstructors() As ConstructorInfo() [JScript] public function GetConstructors(): ConstructorInfo[]; Gets the constructors of the current System. Type. Description Returns all the public constructors defined for the current System. Type . Return Value: An array of System.Reflection.ConstructorInfo objects representing all the public constructors defined for the current System.Type, including the type initializer if it is defined. The following table shows what members of a base class are returned by the **Get** methods when reflecting on a type. GetConstructors [C#] public abstract ConstructorInfo[] GetConstructors(BindingFlags bindingAttr); [C++] public: virtual ConstructorInfo* GetConstructors(BindingFlags

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[VB] MustOverride Public Function GetConstructors(ByVal bindingAttr As

[JScript] public abstract function GetConstructors(bindingAttr : BindingFlags) :
ConstructorInfo[];
Description

When overridden in a derived class, searches for the constructors defined for the current **System.Type**, using the specified **BindingFlags**.

Return Value: An array of System.Reflection.ConstructorInfo objects representing all constructors defined for the current System.Type that match the specified binding constraints, including the type initializer if it is defined.

bindingAttr can be used to specify whether to return only public constructors or both public and non-public constructors. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted.

GetDefaultMembers

[C#] public virtual MemberInfo[] GetDefaultMembers();
[C++] public: virtual MemberInfo* GetDefaultMembers() [];
[VB] Overridable Public Function GetDefaultMembers() As MemberInfo()
[JScript] public function GetDefaultMembers() : MemberInfo[];

Description

Searches for the members defined for the current **System.Type** whose **System.Reflection.DefaultMemberAttribute** is set.

Return Value: An array of System.Reflection.MemberInfo objects representing all default members of the current System.Type.

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This method can be overridden by a derived class.

GetElementType

[C#] public abstract Type GetElementType();

[C++] public: virtual Type* GetElementType() = 0;

[VB] MustOverride Public Function GetElementType() As Type

[JScript] public abstract function GetElementType(): Type;

Description

When overridden in a derived class, returns the **System.Type** of the object encompassed or referred to by the current array, pointer or reference type.

Return Value: The **System.Type** of the object encompassed or referred to by the current array, pointer or reference type.

For example, Type.GetType("Int32[]").GetElementType returns Int32. GetEvent

[C#] public EventInfo GetEvent(string name);

[C++] public: EventInfo* GetEvent(String* name);

[VB] Public Function GetEvent(ByVal name As String) As EventInfo

[JScript] public function GetEvent(name : String) : EventInfo; Gets a specific

event declared or inherited by the current System. Type.

Description

Returns the **System.Reflection.EventInfo** object representing the specified event.

Return Value: The System.Reflection.EventInfo object representing the specified event which is declared or inherited by the current System.Type, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of an event which is declared or inherited by the current **System.Type**.

GetEvent

[C#] public abstract EventInfo GetEvent(string name, BindingFlags bindingAttr);
[C++] public: virtual EventInfo* GetEvent(String* name, BindingFlags
bindingAttr) = 0;

[VB] MustOverride Public Function GetEvent(ByVal name As String, ByVal bindingAttr As BindingFlags) As EventInfo

 $[JScript]\ public\ abstract\ function\ GetEvent (name: String, binding Attr:$

BindingFlags): EventInfo;

Description

When overridden in a derived class, returns the

System.Reflection.EventInfo object representing the specified event, using the specified binding constraints.

Return Value: The System.Reflection.EventInfo object representing the specified event which is declared or inherited by the current System.Type, if found; otherwise, null.

The following **System.Reflection.BindingFlags** filter flags can be used to define which events to include in the search: *Public* to include public events in the search. The **System.String** containing the name of an event which is declared or

inherited by the current System. Type. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. 2 **GetEvents** 3 [C#] public virtual EventInfo[] GetEvents(); 5 [C++] public: virtual EventInfo* GetEvents() []; 6 [VB] Overridable Public Function GetEvents() As EventInfo() 7 [JScript] public function GetEvents(): EventInfo[]; Gets the events that are 8 declared or inherited by the current System.Type. 9 10 Description 11 Returns all the public events that are declared or inherited by the current 12 System. Type. 13 Return Value: An array of System.Reflection.EventInfo objects representing all 14 the public events which are declared or inherited by the current System. Type . 15 This method can be overridden by a derived class. 16 GetEvents 17 18 [C#] public abstract EventInfo[] GetEvents(BindingFlags bindingAttr); 19 [C++] public: virtual EventInfo* GetEvents(BindingFlags bindingAttr) [] = 0; 20 [VB] MustOverride Public Function GetEvents(ByVal bindingAttr As 21 BindingFlags) As EventInfo() 22 [JScript] public abstract function GetEvents(bindingAttr : BindingFlags) : EventInfo[]; 24 25

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When overridden in a derived class, searches for events that are declared or inherited by the current **System.Type**, using the specified binding constraints.

Return Value: An array of **System.Reflection.EventInfo** objects representing all events which are declared or inherited by the current **System.Type** that match the specified binding constraints.

The following **System.Reflection.BindingFlags** filter flags can be used to define which events to include in the search: *Public* to include public events in the search. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted.

GetField

[C#] public FieldInfo GetField(string name);

[C++] public: FieldInfo* GetField(String* name);

[VB] Public Function GetField(ByVal name As String) As FieldInfo

[JScript] public function GetField(name : String) : FieldInfo;

Description

Searches for the field with the specified name.

Return Value: A System.Reflection.FieldInfo object representing the field with the specified name, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the data field to get.

GetField

1	ICHI! Lie abetment EigldInfo GotEigld(atring name RindingFlags hinding Attr).
2	[C#] public abstract FieldInfo GetField(string name, BindingFlags bindingAttr);
3	[C++] public: virtual FieldInfo* GetField(String* name, BindingFlags
4	bindingAttr) = 0;
5	[VB] MustOverride Public Function GetField(ByVal name As String, ByVal
6	bindingAttr As BindingFlags) As FieldInfo
7	[JScript] public abstract function GetField(name : String, bindingAttr :
8	BindingFlags): FieldInfo; Gets a specific field of the current System.Type.
9	
10	Description
11	Searches for the specified field, using the specified binding constraints.
12	Return Value: A System.Reflection.FieldInfo object representing the field that
13	matches the specified requirements, if found; otherwise, null.
14	The following table shows what members of a base class are returned by
15	the Get methods when reflecting on a type. The System.String containing the
16	name of the data field to get. A bitmask comprised of one or more
17	System.Reflection.BindingFlags that specify how the search is conducted.
18	GetFields
19	
20	[C#] public FieldInfo[] GetFields();
21	[C++] public: FieldInfo* GetFields() [];
22	[VB] Public Function GetFields() As FieldInfo()
23	[JScript] public function GetFields(): FieldInfo[]; Gets the fields of the current
24	System.Type.
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Returns all the public fields of the current System. Type .

Return Value: An array of System.Reflection.FieldInfo objects representing all the public fields defined for the current System.Type.

The following table shows what members of a base class are returned by the **Get** methods when reflecting on a type.

GetFields

[C#] public abstract FieldInfo[] GetFields(BindingFlags bindingAttr);

[C++] public: virtual FieldInfo* GetFields(BindingFlags bindingAttr) [] = 0;

[VB] MustOverride Public Function GetFields(ByVal bindingAttr As

BindingFlags) As FieldInfo()

[JScript] public abstract function GetFields(bindingAttr : BindingFlags) :

FieldInfo[];

Description

When overridden in a derived class, searches for the fields defined for the current **System.Type**, using the specified binding constraints.

Return Value: An array of System.Reflection.FieldInfo objects representing all fields defined for the current System.Type that match the specified binding constraints.

The following **System.Reflection.BindingFlags** filter flags can be used to define which fields to include in the search: *Instance* to include instance fields in

the search. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. 2 GetHashCode 3 4 [C#] public override int GetHashCode(); 5 [C++] public: int GetHashCode(); 6 [VB] Overrides Public Function GetHashCode() As Integer 7 [JScript] public override function GetHashCode(): int; 8 9 Description 10 Returns the hash code of the System. Type. 11 Return Value: The hash code of the System.Type. 12 GetInterface 13 14 [C#] public Type GetInterface(string name); 15 [C++] public: Type* GetInterface(String* name); 16 [VB] Public Function GetInterface(ByVal name As String) As Type 17 [JScript] public function GetInterface(name : String) : Type; Gets a specific 18 interface implemented or inherited by the current System. Type. 19 20 Description 21 Searches for the interface with the specified name. 22 Return Value: A System. Type object representing the interface with the specified 23 name, implemented or inherited by the current System. Type, if found; otherwise, 24 null. 25

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The search for *name* is case-sensitive. The **System.String** containing the name of the interface to get.

GetInterface

ignoreCase As Boolean) As Type

[C#] public abstract Type GetInterface(string name, bool ignoreCase);

[C++] public: virtual Type* GetInterface(String* name, bool ignoreCase) = 0;

[VB] MustOverride Public Function GetInterface(ByVal name As String, ByVal

[JScript] public abstract function GetInterface(name : String, ignoreCase :

Boolean): Type;

Description

When overridden in a derived class, searches for the specified interface, specifying whether to do a case-sensitive search.

Return Value: A System.Type object representing the interface with the specified name, implemented or inherited by the current System.Type, if found; otherwise, null.

If name has 128 or more standard ASCII characters, a case-sensitive search is performed, regardless of the value of *ignoreCase*. Arrays or COM types are not searched for unless they have been previously loaded into the table of available classes. The **System.String** containing the name of the interface to get. **true** to perform a case-insensitive search for *name*.

GetInterfaceMap

[C#] public virtual InterfaceMapping GetInterfaceMap(Type interfaceType);

1	[C++] public: virtual InterfaceMapping GetInterfaceMap(Type* interfaceType);
2	[VB] Overridable Public Function GetInterfaceMap(ByVal interfaceType As
3	Type) As InterfaceMapping
4	[JScript] public function GetInterfaceMap(interfaceType : Type) :
5	InterfaceMapping;
6	
7	Description
8	Returns an interface mapping for the specified interface type.
9	Return Value: An System.Reflection.InterfaceMapping object representing the
10	interface mapping for interfaceType.
11	The interface map denotes how an interface is mapped into the actual
12	methods on a class that implements that interface. The System. Type of the
13	interface of which to retrieve a mapping.
14	GetInterfaces
15	
16	[C#] public abstract Type[] GetInterfaces();
17	[C++] public: virtual Type* GetInterfaces() [] = 0;
18	[VB] MustOverride Public Function GetInterfaces() As Type()
19	[JScript] public abstract function GetInterfaces(): Type[];
20	
21	Description
22	When overridden in a derived class, gets all the interfaces implemented or
23	inherited by the current System.Type .
24	Return Value: An array of System. Type objects representing all the interfaces
25	implemented or inherited by the current System.Type.

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[C#] public MemberInfo[] GetMember(string name);

[C++] public: MemberInfo* GetMember(String* name) [];

[VB] Public Function GetMember(ByVal name As String) As MemberInfo()

[JScript] public function GetMember(name : String) : MemberInfo[]; Gets the specified members of the current **System.Type** .

Description

Searches for the members with the specified name.

Return Value: An array of System.Reflection.MemberInfo objects representing the public members with the specified name, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public members to get.

GetMember

[C#] public virtual MemberInfo[] GetMember(string name, BindingFlags bindingAttr);

[C++] public: virtual MemberInfo* GetMember(String* name, BindingFlags bindingAttr) [];

[VB] Overridable Public Function GetMember(ByVal name As String, ByVal bindingAttr As BindingFlags) As MemberInfo()

[JScript] public function GetMember(name : String, bindingAttr : BindingFlags) :

MemberInfo[];

Description

Searches for the specified members, using the specified binding constraints.

Return Value: An array of System.Reflection.MemberInfo objects representing the public members with the specified name, if found; otherwise, null.

This method can be overridden by a derived class. The **System.String** containing the name of the members to get. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted.

GetMember

[C#] public virtual MemberInfo[] GetMember(string name, MemberTypes type, BindingFlags bindingAttr);

[C++] public: virtual MemberInfo* GetMember(String* name, MemberTypes type, BindingFlags bindingAttr) [];

[VB] Overridable Public Function GetMember(ByVal name As String, ByVal type As MemberTypes, ByVal bindingAttr As BindingFlags) As MemberInfo()
[JScript] public function GetMember(name : String, type : MemberTypes, bindingAttr : BindingFlags) : MemberInfo[];

Description

Searches for the specified members of the specified member type, using the specified binding constraints.

Return Value: An array of System.Reflection.MemberInfo objects representing the public members with the specified name, if found; otherwise, null.

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Members include properties, methods, fields, events, and so on. The System.String containing the name of the members to get. The System.Type of member to search for. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. GetMembers [C#] public MemberInfo[] GetMembers(); [C++] public: MemberInfo* GetMembers() []; [VB] Public Function GetMembers() As MemberInfo() [JScript] public function GetMembers() : MemberInfo[]; Gets the members (properties, methods, fields, events, and so on) of the current System. Type. Description Returns all the public members of the current System. Type . Return Value: An array of System.Reflection.MemberInfo objects representing all the public members of the current System. Type. Members include properties, methods, fields, events, and so on. **GetMembers** [C#] public abstract MemberInfo[] GetMembers(BindingFlags bindingAttr); [C++] public: virtual MemberInfo* GetMembers(BindingFlags bindingAttr) [] = 0; [VB] MustOverride Public Function GetMembers(ByVal bindingAttr As

[JScript] public abstract function GetMembers(bindingAttr : BindingFlags) :

BindingFlags) As MemberInfo()

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When overridden in a derived class, searches for the members defined for the current **System.Type**, using the specified binding constraints.

Return Value: An array of System.Reflection.MemberInfo objects representing all members defined for the current System.Type that match the specified binding constraints.

Members include properties, methods, fields, events, and so on. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted.

GetMethod

[C#] public MethodInfo GetMethod(string name);

[C++] public: MethodInfo* GetMethod(String* name);

[VB] Public Function GetMethod(ByVal name As String) As MethodInfo

[JScript] public function GetMethod(name : String) : MethodInfo;

Description

Searches for the public method with the specified name.

Return Value: A System.Reflection.MethodInfo object representing the public method with the specified name, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public method to get.

GetMethod

2	[C#] public MethodInfo GetMethod(string name, BindingFlags bindingAttr);
3	[C++] public:sealed MethodInfo* GetMethod(String* name, BindingFlags
4	bindingAttr);
5	[VB] NotOverridable Public Function GetMethod(ByVal name As String, ByVal
6	bindingAttr As BindingFlags) As MethodInfo
7	[JScript] public function GetMethod(name: String, bindingAttr: BindingFlags):
8	MethodInfo;
9	
10	Description
11	Searches for the specified method, using the specified binding constraints.
12	Return Value: A System.Reflection.MethodInfo object representing the method
13	that matches the specified requirements, if found; otherwise, null.
14	The following System.Reflection.BindingFlags filter flags can be used to
15	define which methods to include in the search: Instance to include instance
16	methods in the search. The System.String containing the name of the method to
17	get. A bitmask comprised of one or more System.Reflection.BindingFlags that
18	specify how the search is conducted.
19	GetMethod
20	
21	[C#] public MethodInfo GetMethod(string name, Type[] types);
22	[C++] public: MethodInfo* GetMethod(String* name, Type* types[]);
23	[VB] Public Function GetMethod(ByVal name As String, ByVal types() As Type)
24	As MethodInfo

[JScript] public function GetMethod(name : String, types : Type[]) : MethodInfo;

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Searches for the specified public method whose parameters match the specified argument types.

Return Value: A System.Reflection.MethodInfo object representing the public method whose parameters match the specified argument types, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public method to get. An array of **System.Type** objects representing the number, order, and type of the parameters for the method to get.

GetMethod

[C#] public MethodInfo GetMethod(string name, Type[] types,

ParameterModifier[] modifiers);

[C++] public: MethodInfo* GetMethod(String* name, Type* types[],

ParameterModifier modifiers[]);

[VB] Public Function GetMethod(ByVal name As String, ByVal types() As Type,

ByVal modifiers() As ParameterModifier) As MethodInfo

[JScript] public function GetMethod(name : String, types : Type[], modifiers :

ParameterModifier[]): MethodInfo;

Description

Searches for the specified public method whose parameters match the specified argument types and modifiers.

Return Value: A System.Reflection.MethodInfo object representing the public method that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and are used for interoperability. The **System.String** containing the name of the public method to get. An array of **System.Type** objects representing the number, order, and type of the parameters for the method to get. An array of **System.Reflection.ParameterModifier** objects representing the attributes associated with the corresponding element in the *types* array.

GetMethod

[C#] public MethodInfo GetMethod(string name, BindingFlags bindingAttr, Binder binder, Type[] types, ParameterModifier[] modifiers);
[C++] public: __sealed MethodInfo* GetMethod(String* name, BindingFlags bindingAttr, Binder* binder, Type* types[], ParameterModifier modifiers[]);
[VB] NotOverridable Public Function GetMethod(ByVal name As String, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As MethodInfo
[JScript] public function GetMethod(name: String, bindingAttr: BindingFlags, binder: Binder, types: Type[], modifiers: ParameterModifier[]): MethodInfo;

Description

Searches for the specified method whose parameters match the specified argument types and modifiers, using the specified binding constraints.

Return Value: A System.Reflection.MethodInfo object representing the method that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and enhance interoperability. The **System.String** containing the name of the method to get. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted. A **System.Reflection.Binder** object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. An array of **System.Type** objects representing the number, order, and type of the parameters for the method to get. An array of **System.Reflection.ParameterModifier** objects representing the attributes associated with the corresponding element in the *types* array.

GetMethod

[C#] public MethodInfo GetMethod(string name, BindingFlags bindingAttr, Binder binder, CallingConventions callConvention, Type[] types,

1	ParameterModifier[] modifiers);
2	[C++] public: MethodInfo* GetMethod(String* name, BindingFlags bindingAttr
3	Binder* binder, CallingConventions callConvention, Type* types[],
4	ParameterModifier modifiers[]);
5	[VB] Public Function GetMethod(ByVal name As String, ByVal bindingAttr As
6	BindingFlags, ByVal binder As Binder, ByVal callConvention As
7	CallingConventions, ByVal types() As Type, ByVal modifiers() As
8	ParameterModifier) As MethodInfo
9	[JScript] public function GetMethod(name : String, bindingAttr : BindingFlags,
10	binder: Binder, callConvention: CallingConventions, types: Type[], modifiers:
11	ParameterModifier[]): MethodInfo; Gets a specific method of the current
12	System.Type.
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Description

Searches for the specified method whose parameters match the specified argument types and modifiers, using the specified binding constraints and the specified calling convention.

Return Value: A System.Reflection.MethodInfo object representing the method that matches the specified requirements, if found; otherwise, null.

The following table shows what members of a base class are returned by the GetXXX methods when reflecting on a type. The System.String containing the name of the method to get. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. A System.Reflection.Binder object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of

System.Reflection.CallingConventions object that specifies the set of rules to use regarding the order and layout of arguments, how the return value is passed, what registers are used for arguments, and how the stack is cleaned up. An array of System.Type objects representing the number, order, and type of the parameters for the method to get. An array of

System.Reflection.ParameterModifier objects representing the attributes associated with the corresponding element in the *types* array.

GetMethodImpl

[C#] protected abstract MethodInfo GetMethodImpl(string name, BindingFlags bindingAttr, Binder binder, CallingConventions callConvention, Type[] types, ParameterModifier[] modifiers);
[C++] protected: virtual MethodInfo* GetMethodImpl(String* name, BindingFlags bindingAttr, Binder* binder, CallingConventions callConvention, Type* types[], ParameterModifier modifiers[]) = 0;
[VB] MustOverride Protected Function GetMethodImpl(ByVal name As String, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal callConvention As CallingConventions, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As MethodInfo
[JScript] protected abstract function GetMethodImpl(name: String, bindingAttr: BindingFlags, binder: Binder, callConvention: CallingConventions, types: Type[], modifiers: ParameterModifier[]): MethodInfo;

Description

When overridden in a derived class, searches for the specified method whose parameters match the specified argument types and modifiers, using the specified binding constraints and the specified calling convention.

Return Value: A System.Reflection.MethodInfo object representing the method that matches the specified requirements, if found; otherwise, null.

If types is null, arguments are not matched. The System.String containing the name of the method to get. A bitmask comprised of one or more

System.Reflection.BindingFlags that specify how the search is conducted. A

System.Reflection.Binder object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The

System.Reflection.CallingConventions object that specifies the set of rules to use regarding the order and layout of arguments, how the return value is passed, what registers are used for arguments, and what process cleans up the stack. An array of System.Type objects representing the number, order, and type of the parameters for the method to get. An array of

System.Reflection.ParameterModifier objects representing the attributes

GetMethods

[C#] public MethodInfo[] GetMethods();

[C++] public: MethodInfo* GetMethods() [];

[VB] Public Function GetMethods() As MethodInfo()

associated with the corresponding element in the types array.

[JScript] public function GetMethods(): MethodInfo[]; Gets the methods of the current **System.Type**.

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Returns all the public methods of the current System. Type .

Return Value: An array of System.Reflection.MethodInfo objects representing all the public methods defined for the current System.Type.

The following table shows what members of a base class are returned by the **Get** methods when reflecting on a type.

GetMethods

[C#] public abstract MethodInfo[] GetMethods(BindingFlags bindingAttr);
 [C++] public: virtual MethodInfo* GetMethods(BindingFlags bindingAttr) [] = 0;
 [VB] MustOverride Public Function GetMethods(ByVal bindingAttr As
 BindingFlags) As MethodInfo()

[JScript] public abstract function GetMethods(bindingAttr : BindingFlags) : MethodInfo[];

Description

When overridden in a derived class, searches for the methods defined for the current **System.Type**, using the specified binding constraints.

Return Value: An array of **System.Reflection.MethodInfo** objects representing all methods defined for the current **System.Type** that match the specified binding constraints.

The following **System.Reflection.BindingFlags** filter flags can be used to define which methods to include in the search: *Instance* to include instance

methods in the search. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. 2 GetNestedType 3 [C#] public Type GetNestedType(string name); 5 [C++] public: Type* GetNestedType(String* name); 6 [VB] Public Function GetNestedType(ByVal name As String) As Type 7 [JScript] public function GetNestedType(name : String) : Type; Gets a specific 8 type nested within the current System. Type. 9 10 Description 11 Searches for the nested type with the specified name. 12 Return Value: A System. Type object representing the nested type with the 13 specified name, if found; otherwise, null. 14 The search for name is case-sensitive. The System.String containing the 15 name of the nested type to get. 16 GetNestedType 17 18 [C#] public abstract Type GetNestedType(string name, BindingFlags bindingAttr); 19 [C++] public: virtual Type* GetNestedType(String* name, BindingFlags 20 bindingAttr) = 0; 21 [VB] MustOverride Public Function GetNestedType(ByVal name As String, 22 ByVal bindingAttr As BindingFlags) As Type 23 $[JScript]\ public\ abstract\ function\ GetNestedType (name: String,\ bindingAttr: \ abstract)]$ 24 BindingFlags): Type;

When overridden in a derived class, searches for the specified nested type, using the specified binding constraints.

Return Value: A System. Type object representing the nested type that matches the specified requirements, if found; otherwise, null.

The following **System.Reflection.BindingFlags** filter flags can be used to define which nested types to include in the search: *Public* to include public nested types in the search. The **System.String** containing the name of the nested type to get. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted.

GetNestedTypes

[C#] public Type[] GetNestedTypes();

[C++] public: Type* GetNestedTypes() [];

[VB] Public Function GetNestedTypes() As Type()

[JScript] public function GetNestedTypes(): Type[]; Gets the types nested within the current **System.Type**.

Description

Returns all the types nested within the current System.Type.

Return Value: An array of System.Type objects representing all the types nested within the current System.Type.

The following table shows what members of a base class are returned by the **Get** methods when reflecting on a type.

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GetNestedTypes

[C#] public abstract Type[GetNestedTypes(BindingFlags	bindingAttr)
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[C++] public: virtual Type* GetNestedTypes(BindingFlags bindingAttr) [] = 0;

[VB] MustOverride Public Function GetNestedTypes(ByVal bindingAttr As

BindingFlags) As Type()

 $[JScript]\ public\ abstract\ function\ GetNestedTypes (bindingAttr: BindingFlags):$

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Description

When overridden in a derived class, searches for the types nested within the current **System.Type**, using the specified binding constraints.

Return Value: An array of System. Type objects representing all the types nested within the current System. Type that match the specified binding constraints.

The following **System.Reflection.BindingFlags** filter flags can be used to define which nested types to include in the search: *Public* to include public nested types in the search. A bitmask comprised of one or more

System.Reflection.BindingFlags that specify how the search is conducted.

GetProperties

[C#] public PropertyInfo[] GetProperties();

[C++] public: PropertyInfo* GetProperties() [];

[VB] Public Function GetProperties() As PropertyInfo()

[JScript] public function GetProperties(): PropertyInfo[];

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0;

Returns all the public properties of the current **System.Type**.

Return Value: An array of **System.Reflection.PropertyInfo** objects representing

all public properties of the current **System.Type**.

The following table shows what members of a base class are returned by the **Get** methods when reflecting on a type.

GetProperties

[C#] public abstract PropertyInfo[] GetProperties(BindingFlags bindingAttr);

[C++] public: virtual PropertyInfo* GetProperties(BindingFlags bindingAttr) [] =

[VB] MustOverride Public Function GetProperties(ByVal bindingAttr As BindingFlags) As PropertyInfo()

[JScript] public abstract function GetProperties(bindingAttr : BindingFlags) :

PropertyInfo[]; Gets the properties of the current **System.Type**.

Description

When overridden in a derived class, searches for the properties of the current **System.Type**, using the specified binding constraints.

Return Value: An array of System.Reflection.PropertyInfo objects representing all properties of the current System.Type that match the specified binding constraints.

A property is considered public to reflection if it has at least one accessor that is public. That is, you can call type.GetProperty("propertyname",

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BindingFlags.Public | BindingFlags.Instance | BindingFlags.Static) to get it. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. **GetProperty** [C#] public PropertyInfo GetProperty(string name); [C++] public: PropertyInfo* GetProperty(String* name); [VB] Public Function GetProperty(ByVal name As String) As PropertyInfo [JScript] public function GetProperty(name : String) : PropertyInfo; Description Searches for the public property with the specified name. Return Value: A System.Reflection.PropertyInfo object representing the public property with the specified name, if found; otherwise, null. The search for name is case-sensitive. The System.String containing the name of the public property to get. GetProperty [C#] public PropertyInfo GetProperty(string name, BindingFlags bindingAttr); [C++] public: __sealed PropertyInfo* GetProperty(String* name, BindingFlags bindingAttr); [VB] NotOverridable Public Function GetProperty(ByVal name As String, ByVal bindingAttr As BindingFlags) As PropertyInfo [JScript] public function GetProperty(name : String, bindingAttr : BindingFlags) :

PropertyInfo;

Searches for the specified property, using the specified binding constraints.

Return Value: A System.Reflection.PropertyInfo object representing the property that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and enhance interoperability. The **System.String** containing the name of the property to get. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted.

GetProperty

[C#] public PropertyInfo GetProperty(string name, Type returnType);
[C++] public: PropertyInfo* GetProperty(String* name, Type* returnType);
[VB] Public Function GetProperty(ByVal name As String, ByVal returnType As
Type) As PropertyInfo
[JScript] public function GetProperty(name : String, returnType : Type) :
PropertyInfo;

Description

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Searches for the public property with the specified name and return type.

Return Value: A System.Reflection.PropertyInfo object representing the public property with the specified name, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public property to get. The return type of the property.

GetProperty

[C#] public PropertyInfo GetProperty(string name, Type[] types);

[C++] public: PropertyInfo* GetProperty(String* name, Type* types[]);

[VB] Public Function GetProperty(ByVal name As String, ByVal types() As

Type) As PropertyInfo

[JScript] public function GetProperty(name : String, types : Type[]) :

PropertyInfo;

Description

Searches for the specified public property whose parameters match the specified argument types.

Return Value: A System.Reflection.PropertyInfo object representing the public property whose parameters match the specified argument types, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public property to get. An array of **System.Type** objects representing the number, order, and type of the parameters for the indexed property to get.

GetProperty

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[C#] public PropertyInfo GetProperty(string name, Type returnType, Type	∍[]
types);	

[C++] public: PropertyInfo* GetProperty(String* name, Type* returnType, Type* types[]);

[VB] Public Function GetProperty(ByVal name As String, ByVal returnType As Type, ByVal types() As Type) As PropertyInfo

[JScript] public function GetProperty(name : String, returnType : Type, types :

Type[]): PropertyInfo;

Description

Searches for the specified public property whose parameters match the specified argument types.

Return Value: A System.Reflection.PropertyInfo object representing the public property whose parameters match the specified argument types, if found; otherwise, null.

The search for *name* is case-sensitive. The **System.String** containing the name of the public property to get. The return type of the property. An array of **System.Type** objects representing the number, order, and type of the parameters for the indexed property to get.

GetProperty

[C#] public PropertyInfo GetProperty(string name, Type returnType, Type[] types, ParameterModifier[] modifiers);

[C++] public: PropertyInfo* GetProperty(String* name, Type* returnType, Type*

types[],	ParameterModifier	modifiers[]);
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[VB] Public Function GetProperty(ByVal name As String, ByVal returnType As Type, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As PropertyInfo

[JScript] public function GetProperty(name : String, returnType : Type, types : Type[], modifiers : ParameterModifier[]) : PropertyInfo;

Description

Searches for the specified public property whose parameters match the specified argument types and modifiers.

Return Value: A System.Reflection.PropertyInfo object representing the public property that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [lcid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and enhance interoperability. The **System.String** containing the name of the public property to get. The return type of the property. An array of **System.Type** objects representing the number, order, and type of the parameters for the indexed property to get. An array of **System.Reflection.ParameterModifier** objects representing the attributes associated with the corresponding element in the *types* array.

GetProperty

[C#] public PropertyInfo GetProperty(string name, BindingFlags bindingAttr, Binder binder, Type returnType, Type[] types, ParameterModifier[] modifiers); [C++] public: __sealed PropertyInfo* GetProperty(String* name, BindingFlags bindingAttr, Binder* binder, Type* returnType, Type* types[], ParameterModifier modifiers[]);

[VB] NotOverridable Public Function GetProperty(ByVal name As String, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal returnType As Type, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As PropertyInfo

[JScript] public function GetProperty(name : String, bindingAttr : BindingFlags, binder : Binder, returnType : Type, types : Type[], modifiers :

ParameterModifier[]): PropertyInfo; Gets a specific property of the current **System.Type**.

Description

Searches for the specified property whose parameters match the specified argument types and modifiers, using the specified binding constraints.

Return Value: A System.Reflection.PropertyInfo object representing the property that matches the specified requirements, if found; otherwise, null.

The following table shows what members of a base class are returned by the Get methods when reflecting on a type. The System.String containing the name of the property to get. A bitmask comprised of one or more

System.Reflection.BindingFlags that specify how the search is conducted. A

System.Reflection.Binder object that defines a set of properties and enables

binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The return type of the property. An array of **System.Type** objects representing the number, order, and type of the parameters for the indexed property to get. An array of **System.Reflection.ParameterModifier** objects representing the attributes associated with the corresponding element in the *types* array.

GetPropertyImpl

[C#] protected abstract PropertyInfo GetPropertyImpl(string name, BindingFlags bindingAttr, Binder binder, Type returnType, Type[] types, ParameterModifier[] modifiers);

[C++] protected: virtual PropertyInfo* GetPropertyImpl(String* name,
BindingFlags bindingAttr, Binder* binder, Type* returnType, Type* types[],
ParameterModifier modifiers[]) = 0;

[VB] MustOverride Protected Function GetPropertyImpl(ByVal name As String, ByVal bindingAttr As BindingFlags, ByVal binder As Binder, ByVal returnType As Type, ByVal types() As Type, ByVal modifiers() As ParameterModifier) As PropertyInfo

 $[JScript]\ protected\ abstract\ function\ Get Property Impl(name: String, binding Attr:$

BindingFlags, binder: Binder, returnType: Type, types: Type[], modifiers:

ParameterModifier[]): PropertyInfo;

Description

When overridden in a derived class, searches for the specified property whose parameters match the specified argument types and modifiers, using the

specified binding constraints.

Return Value: A System.Reflection.PropertyInfo object representing the property that matches the specified requirements, if found; otherwise, null.

The *types* array and the *modifiers* array have the same length. A parameter specified in the *types* array can have the following attributes, which are specified in the *modifiers* array: pdIn, pdOut, pdLcid, pdRetval, pdOptional, and pdHasDefault, which represent [In], [Out], [Icid], [retval], [optional], and a value specifying whether the parameter has a default value. A parameter's associated attributes are stored in the metadata and are used for interoperability. The **System.String** containing the name of the property to get. A bitmask comprised of one or more **System.Reflection.BindingFlags** that specify how the search is conducted. A **System.Reflection.Binder** object that defines a set of properties and enables binding, which can involve selection of an overloaded member, coercion of argument types, and invocation of a member through reflection. The return type of the property. An array of **System.Type** objects representing the number, order, and type of the parameters for the indexed property to get. An array of **System.Reflection.ParameterModifier** objects representing the attributes associated with the corresponding element in the *types* array.

GetType

[C#] public static Type GetType(string typeName);

[C++] public: static Type* GetType(String* typeName);

[VB] Public Shared Function GetType(ByVal typeName As String) As Type

[JScript] public static function GetType(typeName : String) : Type;

Gets the **System.Type** with the specified name, performing a case-sensitive search.

Return Value: The System. Type with the specified name, if found; otherwise, null

GetType only works on assemblies loaded from disk. If you call GetType to look up a type defined in a dynamic assembly defined using the System.Reflection.Emit services, you might get inconsistent behavior. The behavior depends on whether the dynamic assembly is persistent, that is, created using the RunAndSave or Save access modes of the System.Reflection.Emit.AssemblyBuilderAccess enumeration. If the dynamic

assembly is persistent and has been written to disk before **GetType** is called, the loader finds the saved assembly on disk, loads that assembly, and retrieves the type from that assembly. If the assembly has not been saved to disk when **GetType** is called, the method returns **null**. The name of the **System.Type** to get.

GetType

[C#] public static Type GetType(string typeName, bool throwOnError);
[C++] public: static Type* GetType(String* typeName, bool throwOnError);
[VB] Public Shared Function GetType(ByVal typeName As String, ByVal throwOnError As Boolean) As Type

[JScript] public static function GetType(typeName : String, throwOnError :

Boolean): Type;

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Gets the **System.Type** with the specified name, performing a case-sensitive search and specifying whether to throw an exception if an error occurs while loading the **System.Type**.

Return Value: The System. Type with the specified name, if found; otherwise, null

GetType only works on assemblies loaded from disk. If you call GetType to look up a type defined in a dynamic assembly defined using the System.Reflection.Emit services, you might get inconsistent behavior. The behavior depends on whether the dynamic assembly is persistent, that is, created using the RunAndSave or Save access modes of the System.Reflection.Emit.AssemblyBuilderAccess enumeration. If the dynamic assembly is persistent and has been written to disk before GetType is called, the loader finds the saved assembly on disk, loads that assembly, and retrieves the type from that assembly. If the assembly has not been saved to disk when GetType is called, the method returns null. The name of the System.Type to get. true to throw a System.TypeLoadException if an error occurs while loading the System.Type.

GetType

[C#] public static Type GetType(string typeName, bool throwOnError, bool ignoreCase);

[C++] public: static Type* GetType(String* typeName, bool throwOnError, bool ignoreCase);

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[VB] Public Shared Function GetType(ByVal typeName As String, ByVal throwOnError As Boolean, ByVal ignoreCase As Boolean) As Type [JScript] public static function GetType(typeName : String, throwOnError : Boolean, ignoreCase : Boolean) : Type; Gets the **System.Type** with the specified name.

Description

Gets the **System.Type** with the specified name, specifying whether to perform a case-sensitive search and whether to throw an exception if an error occurs while loading the **System.Type**.

Return Value: The System. Type with the specified name, if found; otherwise, null

GetType only works on assemblies loaded from disk. If you call GetType to look up a type defined in a dynamic assembly defined using the System.Reflection.Emit services, you might get inconsistent behavior. The behavior depends on whether the dynamic assembly is persistent, that is, created using the RunAndSave or Save access modes of the System.Reflection.Emit.AssemblyBuilderAccess enumeration. If the dynamic assembly is persistent and has been written to disk before GetType is called, the loader finds the saved assembly on disk, loads that assembly, and retrieves the type from that assembly. If the assembly has not been saved to disk when GetType is called, the method returns null. The name of the System.Type to get. true to throw a System.TypeLoadException if an error occurs while loading the System.Type. true to perform a case-insensitive search for typeName, if typeName has less than 128 characters.

1	GetTypeArray
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3	[C#] public static Type[] GetTypeArray(object[] args);
4	[C++] public: static Type* GetTypeArray(Object* argsgc[]) [];
5	[VB] Public Shared Function GetTypeArray(ByVal args() As Object) As Type()
6	[JScript] public static function GetTypeArray(args : Object[]) : Type[];
7	
8	Description
9	Gets the types of the objects in the specified array.
10	Return Value: An array of System. Type objects representing the types of the
11	corresponding elements in args. An array of objects whose types to determine.
12	GetTypeCode
13	
14	[C#] public static TypeCode GetTypeCode(Type type);
15	[C++] public: static TypeCode GetTypeCode(Type* type);
16	[VB] Public Shared Function GetTypeCode(ByVal type As Type) As TypeCode
17	[JScript] public static function GetTypeCode(type: Type): TypeCode;
18	
19	Description
20	Gets the underlying type code of the specified System.Type .
21	Return Value: The System.TypeCode value of the underlying type. The
22	System.Type whose underlying type code to get.
23	GetTypeFromCLSID
24	
25	[C#] public static Type GetTypeFromCLSID(Guid clsid);

1	[C++] public: static Type* GetTypeFromCLSID(Guid clsid);
2	[VB] Public Shared Function GetTypeFromCLSID(ByVal clsid As Guid) As Type
3	[JScript] public static function GetTypeFromCLSID(clsid : Guid) : Type; Gets the
4	System. Type associated with the specified class identifier (CLSID).
5	
6	Description
7	Gets the System. Type associated with the specified class identifier
8	(CLSID).
9	Return Value: SystemComObject regardless of whether the CLSID is valid.
10	The CLSID of the System. Type to get.
11	GetTypeFromCLSID
12	
13	[C#] public static Type GetTypeFromCLSID(Guid clsid, bool throwOnError);
14	[C++] public: static Type* GetTypeFromCLSID(Guid clsid, bool throwOnError);
15	[VB] Public Shared Function GetTypeFromCLSID(ByVal clsid As Guid, ByVal
16	throwOnError As Boolean) As Type
17	[JScript] public static function GetTypeFromCLSID(clsid : Guid, throwOnError :
18	Boolean): Type;
19	
20	Description
21	Gets the System. Type associated with the specified class identifier
22	(CLSID), specifying whether to throw an exception if an error occurs while
23	loading the System.Type.
24	Return Value: SystemComObject regardless of whether the CLSID is valid.
25	

Exceptions such as System.OutOfMemoryException will be thrown when
specifying true for throwOnError, but it will not fail for unregistered CLSID's.
The CLSID of the System. Type to get. true to throw a
System.TypeLoadException if an error occurs while loading the System.Type.
GetTypeFromCLSID
[C#] public static Type GetTypeFromCLSID(Guid clsid, string server);
[C++] public: static Type* GetTypeFromCLSID(Guid clsid, String* server);
[VB] Public Shared Function GetTypeFromCLSID(ByVal clsid As Guid, ByVal
server As String) As Type
[JScript] public static function GetTypeFromCLSID(clsid : Guid, server : String)
Type;
Description
Gets the System. Type associated with the specified class identifier
(CLSID) from the specified server.
Return Value: SystemComObject regardless of whether the CLSID is valid.
The CLSID of the System. Type to get. The server from which to load the type.
GetTypeFromCLSID
[C#] public static Type GetTypeFromCLSID(Guid clsid, string server, bool
throwOnError);
[C++] public: static Type* GetTypeFromCLSID(Guid clsid, String* server, bool
throwOnError);
[VB] Public Shared Function GetTypeFromCLSID(ByVal clsid As Guid, ByVal

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server As String, ByVal throwOnError As Boolean) As Type [JScript] public static function GetTypeFromCLSID(clsid: Guid, server: String, throwOnError: Boolean): Type; Description Gets the System. Type associated with the specified class identifier (CLSID) from the specified server, specifying whether to throw an exception if an error occurs while loading the System. Type. Return Value: System.__ComObject regardless of whether the CLSID is valid. Exceptions such as System.OutOfMemoryException will be thrown when specifying true for throwOnError, but it will not fail for unregistered CLSID's. The CLSID of the System. Type to get. The server from which to load the type. true to throw a System. TypeLoadException if an error occurs while loading the System.Type. **GetTypeFromHandle** [C#] public static Type GetTypeFromHandle(RuntimeTypeHandle handle); [C++] public: static Type* GetTypeFromHandle(RuntimeTypeHandle handle); [VB] Public Shared Function GetTypeFromHandle(ByVal handle As RuntimeTypeHandle) As Type $[JScript]\ public\ static\ function\ Get Type From Handle (handle:$ RuntimeTypeHandle): Type; Description

Gets the **System.Type** referenced by the specified type handle.

Return Value: The **System.Type** referenced by the specified **System.RuntimeTypeHandle**.

The handles are valid only in the application domain in which they were obtained. The **System.RuntimeTypeHandle** object that refers to the **System.Type**.

GetTypeFromProgID

[C#] public static Type GetTypeFromProgID(string progID);

[C++] public: static Type* GetTypeFromProgID(String* progID);

[VB] Public Shared Function GetTypeFromProgID(ByVal progID As String) As Type

[JScript] public static function GetTypeFromProgID(progID : String) : Type; Gets the **System.Type** associated with the specified program identifier (PROGID).

Description

Gets the **System.Type** associated with the specified program identifier (PROGID), returning null if an error is encountered while loading the **System.Type**.

Return Value: The **System.Type** associated with the specified PROGID, if progID is a valid entry in the registry and a type is associated with it; otherwise, **null**.

This method is provided for COM support. PROGIDs are not used in the Microsoft.NET Framework because they have been superceded by the concept of namespace. The PROGID of the **System.Type** to get.

GetTypeFromProgID

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[C#] public static Type GetTypeFromProgID(string progID, bool throwOnError); 2 [C++] public: static Type* GetTypeFromProgID(String* progID, bool 3 throwOnError); 4 [VB] Public Shared Function GetTypeFromProgID(ByVal progID As String, 5 ByVal throwOnError As Boolean) As Type 6 [JScript] public static function GetTypeFromProgID(progID: String, 7 throwOnError: Boolean): Type; 8 9 Description 10 Gets the System. Type associated with the specified program identifier 11 (PROGID), specifying whether to throw an exception if an error occurs while 12 loading the **System.Type**. 13 Return Value: The System. Type associated with the specified program identifier 14 (PROGID), if progID is a valid entry in the registry and a type is associated with 15 it; otherwise, null. 16 This method is provided for COM support. Program IDs are not used in 17 18

This method is provided for COM support. Program IDs are not used in Microsoft .NET Framework because they have been superceded by the concept of namespace. The PROGID of the **System.Type** to get. **true** to throw a **System.TypeLoadException** if an error occurs while loading the **System.Type**.

GetTypeFromProgID

[C#] public static Type GetTypeFromProgID(string progID, string server);
[C++] public: static Type* GetTypeFromProgID(String* progID, String* server);
[VB] Public Shared Function GetTypeFromProgID(ByVal progID As String,

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ByVal server As String) As Type

[JScript] public static function GetTypeFromProgID(progID : String, server :

String): Type;

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Description

Gets the **System.Type** associated with the specified program identifier (progID) from the specified server, returning null if an error is encountered while loading the **System.Type**.

Return Value: The **System.Type** associated with the specified program identifier (progID), if progID is a valid entry in the registry and a type is associated with it; otherwise, **null**.

This method is provided for COM support. Program IDs are not used in Microsoft .NET Framework because they have been superceded by the concept of namespace. The progID of the **System.Type** to get. The server from which to load the type.

GetTypeFromProgID

[C#] public static Type GetTypeFromProgID(string progID, string server, bool throwOnError);

[C++] public: static Type* GetTypeFromProgID(String* progID, String* server, bool throwOnError);

[VB] Public Shared Function GetTypeFromProgID(ByVal progID As String,

ByVal server As String, ByVal throwOnError As Boolean) As Type

 $[JScript]\ public\ static\ function\ GetTypeFromProgID (progID: String, server: \\$

String, throwOnError: Boolean): Type;

Gets the **System.Type** associated with the specified program identifier (progID) from the specified server, specifying whether to throw an exception if an error occurs while loading the **System.Type**.

Return Value: The **System.Type** associated with the specified program identifier (progID), if progID is a valid entry in the registry and a type is associated with it; otherwise, **null**.

This method is provided for COM support. Program IDs are not used in Microsoft .NET Framework because they have been superceded by the concept of namespace. The progID of the System.Type to get. The server from which to load the type. true to throw a System.TypeLoadException if an error occurs while loading the System.Type.

GetTypeHandle

[C#] public static RuntimeTypeHandle GetTypeHandle(object o);

[C++] public: static RuntimeTypeHandle GetTypeHandle(Object* o);

[VB] Public Shared Function GetTypeHandle(ByVal o As Object) As

RuntimeTypeHandle

[JScript] public static function GetTypeHandle(o: Object): RuntimeTypeHandle;

Description

Gets the handle for the System. Type of a specified object.

Return Value: The handle for the System. Type of the specified System. Object .

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The handles are valid only in the application domain in which they were obtained. The **System.Object** for which to get the Type handle.

HasElementTypeImpl

[C#] protected abstract bool HasElementTypeImpl();

[C++] protected: virtual bool HasElementTypeImpl() = 0;

[VB] MustOverride Protected Function HasElementTypeImpl() As Boolean [JScript] protected abstract function HasElementTypeImpl() : Boolean;

Description

When overridden in a derived class, implements the System.Type.HasElementType property and determines whether the current System.Type encompasses or refers to another type; that is, whether the current System.Type is an array, a pointer, or is passed by reference.

Return Value: true if the System. Type is an array, a pointer, or is passed by reference; otherwise, false.

 $For \ example, Type.GetType("Int32[]"). HasElementTypeImpl \ returns \ \textbf{true} \ ,$ but Type.GetType("Int32"). HasElementTypeImpl returns \ \textbf{false} \ .

HasElementTypeImpl also returns true for "Int32*" and "Int32&".

InvokeMember

[C#] public object InvokeMember(string name, BindingFlags invokeAttr, Binder binder, object target, object[] args);

[C++] public: Object* InvokeMember(String* name, BindingFlags invokeAttr, Binder* binder, Object* target, Object* args __gc[]);

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[VB] Public Function InvokeMember(ByVal name As String, ByVal invokeAttr
As BindingFlags, ByVal binder As Binder, ByVal target As Object, ByVal args()
As Object) As Object
[JScript] public function InvokeMember(name: String, invokeAttr: BindingFlags, binder: Binder, target: Object, args: Object[]): Object;

Description
Invokes the specified member, using the specified binding constraints and matching the specified argument list.

Return Value: An System.Object representing the return value of the invoked member.

The following System.Reflection.BindingFlags filter flags can be used to define which members to include in the search: Instance to include instance

The following System.Reflection.BindingFlags filter flags can be used to define which members to include in the search: Instance to include instance members in the search. The System.String containing the name of the constructor, method, property, or field member to invoke. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. The access can be one of the BindingFlags such as Public, NonPublic, Private, InvokeMethod, GetField, and so on. The type of lookup need not be specified. If the type of lookup is omitted, BindingFlags.DefaultLookup will apply. A System.Reflection.Binder object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The System.Object on which to invoke the specified member. An array containing the arguments to pass to the member to invoke.

InvokeMember

[C#] public object InvokeMember(string name, BindingFlags invokeAttr, Binder binder, object target, object[] args, CultureInfo culture);

[C++] public: Object* InvokeMember(String* name, BindingFlags invokeAttr,

Binder* binder, Object* target, Object* args __gc[], CultureInfo* culture);

[VB] Public Function InvokeMember(ByVal name As String, ByVal invokeAttr

As BindingFlags, ByVal binder As Binder, ByVal target As Object, ByVal args()

As Object, ByVal culture As CultureInfo) As Object

[JScript] public function InvokeMember(name: String, invokeAttr: BindingFlags,

Description

Invokes the specified member, using the specified binding constraints and matching the specified argument list and culture.

binder: Binder, target: Object, args: Object[], culture: CultureInfo): Object;

Return Value: An System.Object representing the return value of the invoked member.

The following System.Reflection.BindingFlags filter flags can be used to define which members to include in the search: *Instance* to include instance members in the search. The System.String containing the name of the constructor, method, property, or field member to invoke. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. The access can be one of the BindingFlags such as Public, NonPublic, Private, InvokeMethod, GetField, and so on. The type of lookup need not be specified. If the type of lookup is omitted, BindingFlags.DefaultLookup will apply. A System.Reflection.Binder object that defines a set of properties and enables

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binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The **System.Object** on which to invoke the specified member. An array containing the arguments to pass to the member to invoke. The

System.Globalization.CultureInfo object representing the globalization locale to use, which may be necessary for locale-specific conversions, such as converting a numeric String to a Double.

InvokeMember

[C#] public abstract object InvokeMember(string name, BindingFlags invokeAttr, Binder binder, object target, object[] args, ParameterModifier[] modifiers, CultureInfo culture, string[] namedParameters);
[C++] public: virtual Object* InvokeMember(String* name, BindingFlags invokeAttr, Binder* binder, Object* target, Object* args __gc[],
ParameterModifier modifiers[], CultureInfo* culture, String* namedParameters __gc[]) = 0;
[VB] MustOverride Public Function InvokeMember(ByVal name As String, ByVal invokeAttr As BindingFlags, ByVal binder As Binder, ByVal target As Object, ByVal args() As Object, ByVal modifiers() As ParameterModifier, ByVal culture As CultureInfo, ByVal namedParameters() As String) As Object [JScript] public abstract function InvokeMember(name: String, invokeAttr: BindingFlags, binder: Binder, target: Object, args: Object[], modifiers: ParameterModifier[], culture: CultureInfo, namedParameters: String[]): Object; Invokes a specific member of the current System.Type.

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When overridden in a derived class, invokes the specified member, using the specified binding constraints and matching the specified argument list, modifiers and culture.

Return Value: An System.Object representing the return value of the invoked member.

InvokeMember calls a constructor member or a method member, gets or sets a property member, gets or sets a data field member, or gets or sets an element of an array member. The System.String containing the name of the constructor, method, property, or field member to invoke. A bitmask comprised of one or more System.Reflection.BindingFlags that specify how the search is conducted. The access can be one of the BindingFlags such as Public, NonPublic, Private, InvokeMethod, GetField, and so on. The type of lookup need not be specified. If the type of lookup is omitted, BindingFlags.DefaultLookup will apply. A System.Reflection.Binder object that defines a set of properties and enables binding, which can involve selection of an overloaded method, coercion of argument types, and invocation of a member through reflection. The System.Object on which to invoke the specified member. An array containing the arguments to pass to the member to invoke. An array of System.Reflection.ParameterModifier objects representing the attributes associated with the corresponding element in the args array. A parameter's associated attributes are stored in the member's signature. The default binder does exact matching on the System.Reflection.ParameterAttributesOut and None attributes. The System.Globalization.CultureInfo object representing the

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globalization locale to use, which may be necessary for locale-specific 1 conversions, such as converting a numeric String to a Double. An array containing the names of the parameters to which the values in the args array are passed. **IsArrayImpl** [C#] protected abstract bool IsArrayImpl(); 6 [C++] protected: virtual bool IsArrayImpl() = 0; [VB] MustOverride Protected Function IsArrayImpl() As Boolean 8 [JScript] protected abstract function IsArrayImpl(): Boolean; 10 Description 11 When overridden in a derived class, implements the System. Type. Is Array 12 property and determines whether the System. Type is an array. 13 Return Value: true if the System. Type is an array; otherwise, false. 14 An instance of the System.Array class must return false because it is an 15 object, not an array. 16 IsAssignableFrom 17 18 [C#] public virtual bool IsAssignableFrom(Type c); 19 [C++] public: virtual bool IsAssignableFrom(Type* c); 20 [VB] Overridable Public Function IsAssignableFrom(ByVal c As Type) As 21 Boolean 22 [JScript] public function IsAssignableFrom(c: Type): Boolean; 23 24

Determines whether an instance of the specified type can be assigned to the 1 current System. Type instance. 2 Return Value: true if an instance of c can be assigned to the current System. Type 3 instance; otherwise, false. This method can be overridden by a derived class. The System. Type to 5 examine whether its objects can be assigned to the current System. Type instance. 6 IsByRefImpl 7 8 [C#] protected abstract bool IsByRefImpl(); 9 [C++] protected: virtual bool IsByRefImpl() = 0; 10 [VB] MustOverride Protected Function IsByRefImpl() As Boolean 11 [JScript] protected abstract function IsByRefImpl(): Boolean; 12 13 Description 14 When overridden in a derived class, implements the System.Type.IsByRef 15 property and determines whether the System. Type is passed by reference. 16 Return Value: true if the System. Type is passed by reference; otherwise, false. 17 IsCOMObjectImpl 18 19 [C#] protected abstract bool IsCOMObjectImpl(); 20 [C++] protected: virtual bool IsCOMObjectImpl() = 0; 21 [VB] MustOverride Protected Function IsCOMObjectImpl() As Boolean 22 [JScript] protected abstract function IsCOMObjectImpl(): Boolean; 23 24 Description

1	When overridden in a derived class, implements the
2	System.Type.IsCOMObject property and determines whether the System.Type
3	is a COM object.
4	Return Value: true if the System.Type is a COM object; otherwise, false.
5	This method returns false for COM interfaces because they are not objects.
6	COM interfaces can be implemented by Microsoft .NET Framework objects.
7	IsContextfulImpl
8	
9	[C#] protected virtual bool IsContextfulImpl();
10	[C++] protected: virtual bool IsContextfulImpl();
11	[VB] Overridable Protected Function IsContextfulImpl() As Boolean
12	[JScript] protected function IsContextfulImpl(): Boolean;
13	
14	Description
15	Implements the System.Type.IsContextful property and determines
16	whether the System. Type can be hosted in a context.
17	Return Value: true if the System. Type can be hosted in a context; otherwise, false
18	•
19	This method can be overridden by a derived class.
20	IsInstanceOfType
21	
22	[C#] public virtual bool IsInstanceOfType(object o);
23	[C++] public: virtual bool IsInstanceOfType(Object* o);
24	[VB] Overridable Public Function IsInstanceOfType(ByVal o As Object) As
25	Boolean

1	[JScript] public function IsinstanceO(1) ype(0: Object): Boolean,
2	
3	Description
4	Determines whether the specified object is an instance of the System. Type
5	•
6	Return Value: true if o is an instance of the System. Type; otherwise, false.
7	This method can be overridden by a derived class. The System.Object
8	whose type to compare with System.Type .
9	IsMarshalByRefImpl
10	
11	[C#] protected virtual bool IsMarshalByRefImpl();
12	[C++] protected: virtual bool IsMarshalByRefImpl();
13	[VB] Overridable Protected Function IsMarshalByRefImpl() As Boolean
14	[JScript] protected function IsMarshalByRefImpl(): Boolean;
15	
16	Description
17	Implements the System.Type.IsMarshalByRef property and determines
18	whether the System.Type is marshalled by reference.
19	Return Value: true if the System. Type is marshalled by reference; otherwise,
20	false .
21	This method can be overridden by a derived class.
22	IsPointerImpl
23	
24	[C#] protected abstract bool IsPointerImpl();
25	[C++] protected: virtual bool IsPointerImpl() = 0;

1	[VB] MustOverride Protected Function IsPointerImpl() As Boolean
2	[JScript] protected abstract function IsPointerImpl(): Boolean;
3	
4	Description
5	When overridden in a derived class, implements the
6	System.Type.IsPointer property and determines whether the System.Type is a
7	pointer.
8	Return Value: true if the System. Type is a pointer; otherwise, false.
9	IsPrimitiveImpl
10	
11	[C#] protected abstract bool IsPrimitiveImpl();
12	[C++] protected: virtual bool IsPrimitiveImpl() = 0;
13	[VB] MustOverride Protected Function IsPrimitiveImpl() As Boolean
14	[JScript] protected abstract function IsPrimitiveImpl(): Boolean;
15	
16	Description
17	When overridden in a derived class, implements the
18	System.Type.IsPrimitive property and determines whether the System.Type is
19	one of the primitive types.
20	Return Value: true if the System. Type is one of the primitive types; otherwise,
21	false .
22	The primitive types are System.Boolean, System.Byte, System.SByte,
23	System.Int16, System.UInt16, System.Int32, System.UInt32, System.Int64
24	System.UInt64, System.Char, System.Double, and System.Single.
25	IsSubclassOf

1	
2	[C#] public virtual bool IsSubclassOf(Type c);
3	[C++] public: virtual bool IsSubclassOf(Type* c);
4	[VB] Overridable Public Function IsSubclassOf(ByVal c As Type) As Boolean
5	[JScript] public function IsSubclassOf(c: Type): Boolean;
6	
7	Description
8	Determines whether the current System. Type is a derived class of the
9	specified class.
10	Return Value: true if the current System. Type is a direct or indirect derived class
11	of c ; otherwise, false .
12	This method can be overridden by a derived class. The System. Type that
13	might be a base class of the current System. Type.
14	IsValueTypeImpl
15	
16	[C#] protected virtual bool IsValueTypeImpl();
17	[C++] protected: virtual bool IsValueTypeImpl();
18	[VB] Overridable Protected Function IsValueTypeImpl() As Boolean
19	[JScript] protected function IsValueTypeImpl(): Boolean;
20	
21	Description
22	Implements the System.Type.IsValueType property and determines
23	whether the System. Type is a value type; that is, not a class or an interface.
24	Return Value: true if the System. Type is a value type; otherwise, false.
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Value types describe values that are represented as sequences of bits; value types are not classes or interfaces. These are referred to as "structs" in some programming languages. Enums are value types. **ToString** [C#] public override string ToString(); [C++] public: String* ToString(); [VB] Overrides Public Function ToString() As String [JScript] public override function ToString(): String; Description Returns a String representing the name of the current Type. Return Value: A System.String representing the name of the current System.Type. This method returns the fully qualified common language runtime namespace and name for all primitive types. For example, the C# instruction, (long)0.Type().ToString() returns "System.Int64" instead of merely "Int64". TypeCode enumeration (System) **ToString** Description Specifies the type of an object.

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Call the System.IConvertible.GetTypeCode method on classes that 1 implement the System.IConvertible interface to obtain the type code for an instance of that class. **ToString** [C#] public const TypeCode Boolean; [C++] public: const TypeCode Boolean; 7 [VB] Public Const Boolean As TypeCode 8 [JScript] public var Boolean : TypeCode; 10 Description 11 A simple type representing Boolean values of true or false . 12 **ToString** 13 14 [C#] public const TypeCode Byte; 15 [C++] public: const TypeCode Byte; 16 [VB] Public Const Byte As TypeCode 17 [JScript] public var Byte: TypeCode; 18 19 Description 20 An integral type representing unsigned 8-bit integers with values between 0 21 and 255. 22 **ToString** 23 24

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[C#] public const TypeCode Char;

1	[C++] public: const TypeCode Char;
2	[VB] Public Const Char As TypeCode
3	[JScript] public var Char : TypeCode;
4	
5	Description
6	An integral type representing unsigned 16-bit integers with values between
7	0 and 65535. The set of possible values for the System.TypeCode.Char type
8	corresponds to the Unicode character set.
9	ToString
10	
11	[C#] public const TypeCode DateTime;
12	[C++] public: const TypeCode DateTime;
13	[VB] Public Const DateTime As TypeCode
14	[JScript] public var DateTime : TypeCode;
15	
16	Description
17	A type representing a date and time value.
18	ToString
19	
20	[C#] public const TypeCode DBNull;
21	[C++] public: const TypeCode DBNull;
22	[VB] Public Const DBNull As TypeCode
23	[JScript] public var DBNull : TypeCode;
24	
25	Description

1	A database null (column) value.
2	ToString
3	
4	[C#] public const TypeCode Decimal;
5	[C++] public: const TypeCode Decimal;
6	[VB] Public Const Decimal As TypeCode
7	[JScript] public var Decimal : TypeCode;
8	
9	Description
10	A simple type representing values ranging from 1.0 x 10 to approximately
11	7.9 x 10 with 28-29 significant digits.
12	ToString
13	
14	[C#] public const TypeCode Double;
15	[C++] public: const TypeCode Double;
16	[VB] Public Const Double As TypeCode
17	[JScript] public var Double : TypeCode;
18	
19	Description
20	A floating point type representing values ranging from approximately 5.0 x
21	10 to 1.7 x 10 with a precision of 15-16 digits.
22	ToString
23	
24	[C#] public const TypeCode Empty;
25	[C++] public: const TypeCode Empty;

1	[VB] Public Const Empty As TypeCode
2	[JScript] public var Empty: TypeCode;
3	
4	Description
5	A null reference.
6	ToString
7	
8	[C#] public const TypeCode Int16;
9	[C++] public: const TypeCode Int16;
10	[VB] Public Const Int16 As TypeCode
11	[JScript] public var Int16: TypeCode;
12	
13	Description
14	An integral type representing signed 16-bit integers with values between -
15	32768 and 32767.
16	ToString
17	
18	[C#] public const TypeCode Int32;
19	[C++] public: const TypeCode Int32;
20	[VB] Public Const Int32 As TypeCode
21	[JScript] public var Int32 : TypeCode;
22	
23	Description
24	An integral type representing signed 32-bit integers with values between -
25	2147483648 and 2147483647.

1	ToString
2	
3	[C#] public const TypeCode Int64;
4	[C++] public: const TypeCode Int64;
5	[VB] Public Const Int64 As TypeCode
6	[JScript] public var Int64 : TypeCode;
7	
8	Description
9	An integral type representing signed 64-bit integers with values between
10	9223372036854775808 and 9223372036854775807.
11	ToString
12	
13	[C#] public const TypeCode Object;
14	[C++] public: const TypeCode Object;
15	[VB] Public Const Object As TypeCode
16	[JScript] public var Object : TypeCode;
17	
18	Description
19	A general type representing any reference or value type not explicitly
20	represented by another TypeCode.
21	ToString
22	
23	[C#] public const TypeCode SByte;
24	[C++] public: const TypeCode SByte;
25	[VB] Public Const SByte As TypeCode

1	[JScript] public var SByte : TypeCode;
2	
3	Description
4	An integral type representing signed 8-bit integers with values between -
5	128 and 127.
6	ToString
7	
8	[C#] public const TypeCode Single;
9	[C++] public: const TypeCode Single;
10	[VB] Public Const Single As TypeCode
11	[JScript] public var Single : TypeCode;
12	
13	Description
14	A floating point type representing values ranging from approximately 1.5 x
15	10 to 3.4 x 10 with a precision of 7 digits.
16	ToString
17	
18	[C#] public const TypeCode String;
19	[C++] public: const TypeCode String;
20	[VB] Public Const String As TypeCode
21	[JScript] public var String: TypeCode;
22	
23	Description
24	A sealed class type representing Unicode character strings.
25	ToString

11	
1	
2	[C#] public const TypeCode UInt16;
3	[C++] public: const TypeCode UInt16;
4	[VB] Public Const UInt16 As TypeCode
5	[JScript] public var UInt16 : TypeCode;
6	
7	Description
8	An integral type representing unsigned 16-bit integers with values between
9	0 and 65535.
10	ToString
11	
12	[C#] public const TypeCode UInt32;
13	[C++] public: const TypeCode UInt32;
14	[VB] Public Const UInt32 As TypeCode
15	[JScript] public var UInt32 : TypeCode;
16	,
17	Description
18	An integral type representing unsigned 32-bit integers with values between
19	0 and 4294967295.
20	ToString
21	
22	[C#] public const TypeCode UInt64;
23	[C++] public: const TypeCode UInt64;
24	[VB] Public Const UInt64 As TypeCode
25	[JScript] public var UInt64 : TypeCode;

2	Description
3	An integral type representing unsigned 64-bit integers with values between
4	0 and 18446744073709551615.
5	TypedReference structure (System)
6	ToString
7	
8	
9	Description
10	Describes objects that contain both a managed pointer to a location and a
11	runtime representation of the type that may be stored at that location.
12	A typed reference is a type/value combination used for varargs and other
13	support.
14	Equals
15	
16	[C#] public override bool Equals(object o);
17	[C++] public: bool Equals(Object* o);
18	[VB] Overrides Public Function Equals(ByVal o As Object) As Boolean
19	[JScript] public override function Equals(o : Object) : Boolean;
20	
21	Description
22	Checks if this object is equal to the specified object.
23	Return Value: true if this object is equal to the specified object; otherwise, false.

The object with which to compare the current object.

GetHashCode

[C#] public override int GetHashCode();
[C++] public: int GetHashCode();
[VB] Overrides Public Function GetHashCode() As Integer
[JScript] public override function GetHashCode(): int;
Description
Returns the hash code of this object.
Return Value: The hash code of this object.
GetTargetType
[C#] public static Type GetTargetType(TypedReference value);
[C++] public: static Type* GetTargetType(TypedReference value);
[VB] Public Shared Function GetTargetType(ByVal value As TypedReference)
As Type
[JScript] public static function GetTargetType(value : TypedReference) : Type;
Description
Returns the type of the target of the specified TypedReference .
Return Value: The type of the target of the specified TypedReference. The value
whose target's type is to be returned.
MakeTypedReference
[C#] public static TypedReference MakeTypedReference(object target, FieldInfo[
flds);

- 11	
1	[C++] public: static TypedReference MakeTypedReference(Object* target,
2	FieldInfo* flds[]);
3	[VB] Public Shared Function MakeTypedReference(ByVal target As Object,
4	ByVal flds() As FieldInfo) As TypedReference
5	[JScript] public static function MakeTypedReference(target : Object, flds :
6	FieldInfo[]): TypedReference;
7	
8	Description
9	Makes a TypedReference for the specified target object using the
10	specifying fields.
11	Return Value: A TypedReference for the specified target. The target object that
12	defines the type of the TypedReference. The fields to be encapsulated.
13	SetTypedReference
14	
15	[C#] public static void SetTypedReference(TypedReference target, object value);
16	[C++] public: static void SetTypedReference(TypedReference target, Object*
17	value);
18	[VB] Public Shared Sub SetTypedReference(ByVal target As TypedReference,
19	ByVal value As Object)
20	[JScript] public static function SetTypedReference(target: TypedReference, value
21	: Object);
22	
23	Description
24	Converts the specified value to a TypedReference.
25	Return Value: This method assigns value to target. A change type of value
•	

1	converts it to the type of the TypedReference. The
2	System.Convert.ChangeType(System.Object,System.TypeCode) method does
3	the conversion. The target of the conversion. The value to be converted.
4	TargetTypeToken
5	
6	[C#] public static RuntimeTypeHandle TargetTypeToken(TypedReference value);
7	[C++] public: static RuntimeTypeHandle TargetTypeToken(TypedReference
8	value);
9	[VB] Public Shared Function TargetTypeToken(ByVal value As TypedReference)
10	As RuntimeTypeHandle
11	[JScript] public static function TargetTypeToken(value : TypedReference) :
12	RuntimeTypeHandle;
13	
14	Description
15	Returns the internal metadata type handle for the specified
16	TypedReference.
17	Return Value: The internal metadata type handle for the specified
18	TypedReference . The TypedReference for which the type handle is requested.
19	ToObject
20	
21	[C#] public static object ToObject(TypedReference value);
22	[C++] public: static Object* ToObject(TypedReference value);
23	[VB] Public Shared Function ToObject(ByVal value As TypedReference) As
24	Object
25	[JScript] public static function ToObject(value : TypedReference) : Object;

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innerException);

innerException);

Description

4	Return Value: An Object converted from a TypedReference.
5	This might be a boxing operation. The TypedReference to be converted.
6	TypeInitializationException class (System)
7	ToString
8	
9	
10	Description
11	The exception that is thrown as a wrapper around the exception thrown by
12	the class initializer. This class cannot be inherited.
13	When a class initializer fails to initialize a type, a
14	System. TypeInitializationException is created and passed a reference to the
15	exception thrown by the type's class initializer. The
16	System.Exception.InnerException property of
17	System. TypeInitialization Exception holds the underlying exception.
18	TypeInitializationException
19	Example Syntax:
20	ToString

Converts the specified TypedReference to an Object .

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[C#] public TypeInitializationException(string fullTypeName, Exception

[C++] public: TypeInitializationException(String* fullTypeName, Exception*

1	[VB] Public Sub New(ByVal fullTypeName As String, ByVal innerException As
2	Exception)
3	[JScript] public function TypeInitializationException(fullTypeName : String,
4	innerException : Exception);
5	
6	Description
7	Initializes a new instance of the System. TypeInitialization Exception class
8	with the default error message, the specified type name, and a reference to the
9	inner exception that is the root cause of this exception.
10	When an Exception X is thrown as a direct result of a previous exception Y
11	the System.Exception.InnerException property of X should contain a reference
12	to Y . The InnerException property returns the same value as was passed into the
13	constructor, or null if the inner exception value was not supplied to the
14	constructor. The fully qualified name of the type that fails to initialize. An instance
15	of System. Exception that is the cause of the current Exception. If inner Exception
16	is non-null, then the current Exception is raised in a catch block handling
17	innerException .
18	HelpLink
19	HResult
20	InnerException
21	Message
22	Source
23	StackTrace
24	TargetSite

TypeName

1	ToString
2	
3	
4	Description
5	Gets the fully qualified name of the type that fails to initialize.
6	TypeLoadException class (System)
7	ToString
8	
9	
10	Description
11	The exception that is thrown when type-loading failures occur.
12	System.TypeLoadException is thrown when the Common Language
13	Runtime cannot find the assembly, the type within the assembly, or cannot load
14	the type.
15	TypeLoadException
16	Example Syntax:
17	ToString
18	
19	[C#] public TypeLoadException();
20	[C++] public: TypeLoadException();
21	[VB] Public Sub New()
22	[JScript] public function TypeLoadException(); Initializes a new instance of the
23	System. TypeLoad Exception class.
24	
25	Description

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1	Initializes a new instance of the System. TypeLoad Exception class with
2	default properties.
3	The following table shows the initial property values for an instance of
4	System.TypeLoadException .
5	TypeLoadException
6	Example Syntax:
7	ToString
8	
9	[C#] public TypeLoadException(string message);
10	[C++] public: TypeLoadException(String* message);
11	[VB] Public Sub New(ByVal message As String)
12	[JScript] public function TypeLoadException(message : String);
13	
14	Description
15	Initializes a new instance of the System. TypeLoad Exception class with a
16	specified error message.
17	The following table shows the initial property values for an instance of
18	System.TypeLoadException. The error message that explains the reason for the
19	exception.
20	TypeLoadException
21	Example Syntax:
22	ToString
23	
24	[C#] protected TypeLoadException(SerializationInfo info, StreamingContext
25	context):

1	[C++] protected: TypeLoadException(SerializationInfo* info, StreamingContext
2	context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function TypeLoadException(info : SerializationInfo, context :
6	StreamingContext);
7	
8	Description
9	Initializes a new instance of the System. TypeLoad Exception class with
10	serialized data.
11	This constructor is called during descrialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	TypeLoadException
16	Example Syntax:
17	ToString
18	
19	[C#] public TypeLoadException(string message, Exception inner);
20	[C++] public: TypeLoadException(String* message, Exception* inner);
21	[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
22	[JScript] public function TypeLoadException(message : String, inner : Exception);
23	
24	Description
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Initializes a new instance of the **System.TypeLoadException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an Exception X is thrown as a direct result of a previous exception Y, the System. Exception. Inner Exception property of X should contain a reference to Y. The Inner Exception property returns the same value as was passed into the constructor, or null if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If inner is non-null, then the current Exception is raised in a catch block handling inner.

HelpLink

HResult

InnerException

Message

ToString

Description

Gets the error message for this exception.

This property overrides **System.Exception.Message** . The error message should be localized.

Source

StackTrace

TargetSite

TypeName

1	
2	
3	
4	Desc
5	
6	
7	class
8	prop
9	
10	
11	[C#]
12	cont
13	[C+
14	cont
15	[VB
16	ByV
17	[JSc

ToString

Description

Gets the fully qualified name of the type that causes the exception.

When overriding **System.TypeLoadException.TypeName** in a derived class, be sure to call the base class's **System.TypeLoadException.TypeName** property.

GetObjectData

[C#] public override void GetObjectData(SerializationInfo info, StreamingContext context);

[C++] public: void GetObjectData(SerializationInfo* info, StreamingContext context);

[VB] Overrides Public Sub GetObjectData(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] public override function GetObjectData(info : SerializationInfo, context : StreamingContext);

Description

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Sets the **System.Runtime.Serialization.SerializationInfo** object with the class name, method name, resource ID, and additional exception information.

System.TypeLoadException.GetObjectData(System.Runtime.Serialization.SerializationInfo,System.Runtime.Serialization.StreamingContext) sets a System.Runtime.Serialization.SerializationInfo with all the exception object

data targeted for serialization. During deserialization, the exception object is 1 reconstituted from the System.Runtime.Serialization.SerializationInfo 2 transmitted over the stream. The object that holds the serialized object data. The 3 contextual information about the source or destination. TypeUnloadedException class (System) 5 **ToString** 6 7 8 Description The exception that is thrown when there is an attempt to access an unloaded 10 class. 11 System.TypeUnloadedException uses the HRESULT 12 COR_E_TYPEUNLOADED, which has the value 0x80131013. 13 TypeUnloadedException 14 Example Syntax: 15 **ToString** 16 17 [C#] public TypeUnloadedException(); 18 [C++] public: TypeUnloadedException(); 19 [VB] Public Sub New() 20 [JScript] public function TypeUnloadedException(); Initializes new instance of the 21 ${\bf System. Type Unloaded Exception\ class.}$ 22 23 Description 24

25

1 Initializes a new instance of the System. Type Unloaded Exception class with default properties. 2 The following table shows the initial property values for an instance of 3 System.TypeUnloadedException. TypeUnloadedException 5 Example Syntax: 6 **ToString** 7 8 [C#] public TypeUnloadedException(string message); 9 [C++] public: TypeUnloadedException(String* message); 10 [VB] Public Sub New(ByVal message As String) 11 [JScript] public function TypeUnloadedException(message : String); 12 13 Description 14 Initializes a new instance of the System. Type Unloaded Exception class 15 with a specified error message. 16 The following table shows the initial property values for an instance of 17 System.TypeUnloadedException . The error message that explains the reason for 18 the exception. 19 TypeUnloadedException 20 Example Syntax: 21 **ToString** 22 23 [C#] protected TypeUnloadedException(SerializationInfo info, StreamingContext 24 context);

1	[C++] protected: TypeUnloadedException(SerializationInfo* info,
2	StreamingContext context);
3	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
4	StreamingContext)
5	[JScript] protected function TypeUnloadedException(info : SerializationInfo,
6	context : StreamingContext);
7	
8	Description
9	Initializes a new instance of the System. Type Unloaded Exception class
10	with serialized data.
11	This constructor is called during deserialization to reconstitute the
12	exception object transmitted over a stream. For more information, see . The object
13	that holds the serialized object data. The contextual information about the source
14	or destination.
15	TypeUnloadedException
16	Example Syntax:
17	ToString
18	
19	[C#] public TypeUnloadedException(string message, Exception innerException);
20	[C++] public: TypeUnloadedException(String* message, Exception*
21	innerException);
22	[VB] Public Sub New(ByVal message As String, ByVal innerException As
23	Exception)
24	[JScript] public function TypeUnloadedException(message : String,
25	innerException : Exception);

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Description

Initializes a new instance of the **System.TypeUnloadedException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception**X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the constructor. The error message that explains the reason for the exception. An instance of **System.Exception** that is the cause of the current **Exception**. If innerException is non-null, then the current **Exception** is raised in a catch block handling innerException.

HelpLink

HResult

InnerException

Message

Source

StackTrace

TargetSite

UInt16 structure (System)

ToString

Description

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1	Represents a 16-bit unsigned integer.
2	The UInt16 value type represents unsigned integers with values ranging
3	from 0 to 65535.
4	ToString
5	
6	[C#] public const ushort MaxValue;
7	[C++] public: const unsigned short MaxValue;
8	[VB] Public Const MaxValue As UInt16
9	[JScript] public var MaxValue : UInt16;
10	
11	Description
12	A constant representing the largest possible value of UInt16.
13	The value of this constant is 65535; that is, hexadecimal 0xFFFF.
14	ToString
15	
16	[C#] public const ushort MinValue;
17	[C++] public: const unsigned short MinValue;
18	[VB] Public Const MinValue As UInt16
19	[JScript] public var MinValue : UInt16;
20	
21	Description
22	A constant representing the smallest possible value of UInt16 .
23	The value of this constant is 0.
24	CompareTo
25	

1	
2	[C#] public int CompareTo(object value);
3	[C++] public:sealed int CompareTo(Object* value);
4	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
5	Integer
6	[JScript] public function CompareTo(value : Object) : int;
7	
8	Description
9	Compares this instance to a specified object and returns an indication of
10	their relative values.
11	Return Value: A signed number indicating the relative values of this instance and
12	value .
13	Any instance of UInt16, regardless of its value, is considered greater than
14	null. An object to compare, or null.
15	Equals
16	
17	[C#] public override bool Equals(object obj);
18	[C++] public: bool Equals(Object* obj);
19	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
20	[JScript] public override function Equals(obj : Object) : Boolean;
21	
22	Description
23	Returns a value indicating whether this instance is equal to a specified
24	object.
25	

1	Return Value: true if obj is an instance of UInt16 and equals the value of this
2	instance; otherwise, false. An object to compare with this instance.
3	GetHashCode .
4	
5	[C#] public override int GetHashCode();
6	[C++] public: int GetHashCode();
7	[VB] Overrides Public Function GetHashCode() As Integer
8	[JScript] public override function GetHashCode(): int;
9	
10	Description
11	Returns the hash code for this instance.
12	Return Value: A 32-bit signed integer hash code.
13	GetTypeCode
14	
15	[C#] public TypeCode GetTypeCode();
16	[C++] public:sealed TypeCode GetTypeCode();
17	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
18	[JScript] public function GetTypeCode() : TypeCode;
19	
20	Description
21	Returns the TypeCode for value type UInt16 .
22	Return Value: The enumerated constant, System. TypeCode. UInt16.
23	Parse
24	
25	[C#] public static ushort Parse(string s);

1	[C++] public: static unsigned short Parse(String* s);
2	[VB] Public Shared Function Parse(ByVal s As String) As UInt16
3	[JScript] public static function Parse(s: String): UInt16; Converts the String
4	representation of a number to its 16-bit unsigned integer equivalent.
5	
6	Description
7	Converts the String representation of a number to its 16-bit unsigned
8	integer equivalent.
9	Return Value: An 16-bit unsigned integer equivalent to the number contained in s .
10	s contains a number of the form: [ws][sign]digits[ws] Items in square
11	brackets ('[' and ']') are optional, and other items are as follows. A System.String
12	containing a number to convert.
13	Parse
14	
15	[C#] public static ushort Parse(string s, IFormatProvider provider);
16	[C++] public: static unsigned short Parse(String* s, IFormatProvider* provider);
17	[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As
18	IFormatProvider) As UInt16
19	[JScript] public static function Parse(s : String, provider : IFormatProvider) :
20	UInt16;
21	
22	Description
23	Converts the String representation of a number in a specified culture-
24	specific format to its 16-bit unsigned integer equivalent.
25	Return Value: An 16-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

Parse

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[C#] public static ushort Parse(string s, NumberStyles style);

[C++] public: static unsigned short Parse(String* s, NumberStyles style);

[VB] Public Shared Function Parse(ByVal s As String, ByVal style As

NumberStyles) As UInt16

[JScript] public static function Parse(s : String, style : NumberStyles) : UInt16;

Description

Converts the **String** representation of a number in a specified style to its 16-bit unsigned integer equivalent.

Return Value: An 16-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. The combination of one or more

System.Globalization.NumberStyles constants that indicate the permitted format of *s*.

Parse

[C#] public static ushort Parse(string s, NumberStyles style, IFormatProvider provider);

1	[C++] public: static unsigned short Parse(String* s, NumberStyles style,
2	IFormatProvider* provider);
3	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
4	NumberStyles, ByVal provider As IFormatProvider) As UInt16
5	[JScript] public static function Parse(s : String, style : NumberStyles, provider :
6	IFormatProvider): UInt16;
7	
8	Description
9	Converts the String representation of a number in a specified style and
10	culture-specific format to its 16-bit unsigned integer equivalent.
11	Return Value: An 16-bit unsigned integer equivalent to the number specified in s .
12	s contains a number of the form: [ws][sign]digits[ws] Items in square
13	brackets ('[' and ']') are optional, and other items are as follows. A System.String
14	containing a number to convert. The combination of one or more
15	System.Globalization.NumberStylesconstants that indicate the permitted format
16	of s. An System.IFormatProvider interface implementation which supplies
17	culture-specific formatting information about s.
18	IConvertible.ToBoolean
19	
20	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
21	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
22	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
23	Implements IConvertible.ToBoolean
24	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
25	IConvertible.ToByte

Ш	
1	
2	[C#] byte IConvertible.ToByte(IFormatProvider provider);
3	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
4	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
5	IConvertible.ToByte
6	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
7	IConvertible.ToChar
8	
9	[C#] char IConvertible.ToChar(IFormatProvider provider);
10	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
11	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
12	IConvertible.ToChar
13	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
14	IConvertible.ToDateTime
15	
16	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
17	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
18	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
19	Implements IConvertible.ToDateTime
20	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
21	DateTime;
22	IConvertible.ToDecimal
23	
24	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
25	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);

1	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
2	Implements IConvertible.ToDecimal
3	[JScript] function IConvertible.ToDecimal(provider: IFormatProvider): Decimal;
4	IConvertible.ToDouble
5	
6	[C#] double IConvertible.ToDouble(IFormatProvider provider);
7	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
8	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
9	Implements IConvertible.ToDouble
10	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
11	IConvertible.ToInt16
12	
13	[C#] short IConvertible.ToInt16(IFormatProvider provider);
14	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
15	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
16	Implements IConvertible.ToInt16
17	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
18	IConvertible.ToInt32
19	
20	[C#] int IConvertible.ToInt32(IFormatProvider provider);
21	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
22	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
23	Implements IConvertible.ToInt32
24	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
25	IConvertible.ToInt64

1	
2	[C#] long IConvertible.ToInt64(IFormatProvider provider);
3	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
4	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements
5	IConvertible.ToInt64
6	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
7	IConvertible.ToSByte
8	
9	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
10	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
11	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
12	Implements IConvertible.ToSByte
13	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
14	IConvertible.ToSingle
15	
16	[C#] float IConvertible.ToSingle(IFormatProvider provider);
17	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
18	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
19	Implements IConvertible.ToSingle
20	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
21	IConvertible.ToType
22	
23	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
24	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
25	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)

As Object Implements IConvertible.ToType
[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider)
Object;
IConvertible.ToUInt16
[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
Implements IConvertible.ToUInt16
[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
IConvertible.ToUInt32
[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
Implements IConvertible.ToUInt32
[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
IConvertible.ToUInt64
[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
Implements IConvertible.ToUInt64
[JScript] function IConvertible.ToUInt64(provider: IFormatProvider): UInt64
ToString

Description

2	[C#] public override string ToString();
3	[C++] public: String* ToString();
4	[VB] Overrides Public Function ToString() As String
5	[JScript] public override function ToString(): String; Converts the numeric value
6	of this instance to its equivalent String representation.
7	
8	Description
9	Converts the numeric value of this instance to its equivalent String
10	representation.
11	Return Value: The System.String representation of the value of this instance,
12	consisting of a sequence of digits ranging from 0 to 9, without a sign or leading
13	zeroes.
14	The return value is formatted with the general format specifier ("G") and
15	the System.Globalization.NumberFormatInfo for the current culture.
16	ToString
17	
18	[C#] public string ToString(IFormatProvider provider);
19	[C++] public:sealed String* ToString(IFormatProvider* provider);
20	[VB] NotOverridable Public Function ToString(ByVal provider As
21	IFormatProvider) As String
22	[JScript] public function ToString(provider : IFormatProvider) : String;
23	

Converts the numeric value of this instance to its equivalent String 1 representation using the specified culture-specific format information. 2 Return Value: The System.String representation of the value of this instance as 3 specified by provider. 4 This instance is formatted with the general format specifier ("G"). An System.IFormatProvider interface implementation which supplies culture-6 specific formatting information. 7 **ToString** 8 9 [C#] public string ToString(string format); 10 [C++] public: String* ToString(String* format); 11 [VB] Public Function ToString(ByVal format As String) As String 12 [JScript] public function ToString(format : String) : String; 13 14 Description 15 Converts the numeric value of this instance to its equivalent String 16 representation using the specified format. 17 Return Value: The System.String representation of the value of this instance as 18 specified by format. 19 If format is **null** or an empty string (""), the return value of this instance is 20 formatted with the general format specifier ("G"). A format string. 21 **ToString** 22 23 [C#] public string ToString(string format, IFormatProvider provider); 24

[C++] public: __sealed String* ToString(String* format, IFormatProvider*

1	provider);
2	[VB] NotOverridable Public Function ToString(ByVal format As String, ByVal
3	provider As IFormatProvider) As String
4	[JScript] public function ToString(format : String, provider : IFormatProvider) :
5	String;
6	
7	Description
8	Converts the numeric value of this instance to its equivalent String
9	representation using the specified format and culture-specific format information.
10	Return Value: The System.String representation of the value of this instance as
11	specified by format and provider.
12	If format is null or an empty string (""), the return value for this instance is
13	formatted with the general format specifier ("G"). A format specification. An
14	System.IFormatProvider interface implementation which supplies culture-
15	specific formatting information about this instance.
16	UInt32 structure (System)
17	ToString
18	
19	
20	Description
21	Represents a 32-bit unsigned integer.
22	The UInt32 value type represents unsigned integers with values ranging
23	from 0 to 4,294,967,295.
24	ToString
25	

1	
2	[C#] public const uint MaxValue;
3	[C++] public: const unsigned int MaxValue;
4	[VB] Public Const MaxValue As UInt32
5	[JScript] public var MaxValue : UInt32;
6	
7	Description
8	A constant representing the largest possible value of UInt32.
9	The value of this constant is 4294967295; that is, hexadecimal
10	0xFFFFFFF.
11	ToString
12	
13	[C#] public const uint MinValue;
14	[C++] public: const unsigned int MinValue;
15	[VB] Public Const MinValue As UInt32
16	[JScript] public var MinValue : UInt32;
17	
18	Description
19	A constant representing the smallest possible value of UInt32.
20	The value of this constant is 0.
21	CompareTo
22	
23	[C#] public int CompareTo(object value);
24	[C++] public:sealed int CompareTo(Object* value);
25	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As

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1	Integer
2	[JScript] public function CompareTo(value : Object) : int;
3	
4	Description
5	Compares this instance to a specified object and returns an indication of
6	their relative values.
7	Return Value: A signed number indicating the relative values of this instance and
8	value .
9	Any instance of UInt32, regardless of its value, is considered greater than
10	null. An object to compare, or null.
11	Equals
12	
13	[C#] public override bool Equals(object obj);
14	[C++] public: bool Equals(Object* obj);
15	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
16	[JScript] public override function Equals(obj : Object) : Boolean;
17	
18	Description
19	Returns a value indicating whether this instance is equal to a specified
20	object.
21	Return Value: true if obj is an instance of UInt32 and equals the value of this
22	instance; otherwise, false. An object to compare with this instance.
23	GetHashCode
24	
25	[C#] public override int GetHashCode():

1	[C++] public: int GetHashCode();
2	[VB] Overrides Public Function GetHashCode() As Integer
3	[JScript] public override function GetHashCode(): int;
4	
5	Description
6	Returns the hash code for this instance.
7	Return Value: A 32-bit signed integer hash code.
8	GetTypeCode
9	
10	[C#] public TypeCode GetTypeCode();
11	[C++] public:sealed TypeCode GetTypeCode();
12	[VB] NotOverridable Public Function GetTypeCode() As TypeCode
13	[JScript] public function GetTypeCode(): TypeCode;
14	
15	Description
16	Returns the TypeCode for value type UInt32.
17	Return Value: The enumerated constant, System.TypeCode.UInt32.
18	Parse
19	
20	[C#] public static uint Parse(string s);
21	[C++] public: static unsigned int Parse(String* s);
22	[VB] Public Shared Function Parse(ByVal s As String) As UInt32
23	[JScript] public static function Parse(s : String) : UInt32; Converts the String
24	representation of a number to its 32-bit unsigned integer equivalent.
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Converts the **String** representation of a number to its 32-bit unsigned integer equivalent.

Return Value: An 32-bit unsigned integer equivalent to the number contained in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert.

Parse

[C#] public static uint Parse(string s, IFormatProvider provider);

[C++] public: static unsigned int Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As

IFormatProvider) As UInt32

 $[JScript]\ public\ static\ function\ Parse (s:String,\ provider:IFormatProvider):$

UInt32;

Description

Converts the **String** representation of a number in a specified culturespecific format to its 32-bit unsigned integer equivalent.

Return Value: An 32-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

1	Parse
2	
3	[C#] public static uint Parse(string s, NumberStyles style);
4	[C++] public: static unsigned int Parse(String* s, NumberStyles style);
5	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
6	NumberStyles) As UInt32
7	[JScript] public static function Parse(s : String, style : NumberStyles) : UInt32;
8	
9	Description
10	Converts the String representation of a number in a specified style to its
11	32-bit unsigned integer equivalent.
12	Return Value: An 32-bit unsigned integer equivalent to the number specified in s
13	s contains a number of the form: [ws][sign]digits[ws] Items in square
14	brackets ('[' and ']') are optional, and other items are as follows. A System.String
15	containing a number to convert. The combination of one or more
16	System.Globalization.NumberStyles constants that indicate the permitted forma
17	of s.
18	Parse
19	
20	[C#] public static uint Parse(string s, NumberStyles style, IFormatProvider
21	provider);
22	[C++] public: static unsigned int Parse(String* s, NumberStyles style,
23	IFormatProvider* provider);
24	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
25	NumberStyles, ByVal provider As IFormatProvider) As UInt32

1	[JScript] public static function Parse(s : String, style : NumberStyles, provider :
2	IFormatProvider): UInt32;
3	
4	Description
5	Converts the String representation of a number in a specified style and
6	culture-specific format to its 32-bit unsigned integer equivalent.
7	Return Value: An 32-bit unsigned integer equivalent to the number specified in s .
8	s contains a number of the form: [ws][sign]digits[ws] Items in square
9	brackets ('[' and ']') are optional, and other items are as follows. A System.String
10	containing a number to convert. The combination of one or more
11	System.Globalization.NumberStylesconstants that indicate the permitted format
12	of s. An System.IFormatProvider interface implementation which supplies
13	culture-specific formatting information about s.
14	IConvertible.ToBoolean
15	
16	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
17	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
18	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
19	Implements IConvertible.ToBoolean
20	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
21	IConvertible.ToByte
22	
23	[C#] byte IConvertible.ToByte(IFormatProvider provider);
24	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
25	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements

11				
1	IConvertible.ToByte			
2	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;			
3	IConvertible.ToChar			
4				
5	[C#] char IConvertible.ToChar(IFormatProvider provider);			
6	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);			
7	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements			
8	lConvertible.ToChar			
9	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;			
10	IConvertible.ToDateTime			
11				
12	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);			
13	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);			
14	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime			
15	Implements IConvertible.ToDateTime			
16	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :			
17	DateTime;			
18	IConvertible.ToDecimal			
19				
20	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);			
21	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);			
22	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal			
23	Implements IConvertible.ToDecimal			
24	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal			
25	IConvertible.ToDouble			

1	
2	[C#] double IConvertible.ToDouble(IFormatProvider provider);
3	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
4	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
5	Implements IConvertible.ToDouble
6	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
7	IConvertible.ToInt16
8	
9	[C#] short IConvertible.ToInt16(IFormatProvider provider);
10	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
11	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
12	Implements IConvertible.ToInt16
13	[JScript] function IConvertible.ToInt16(provider : IFormatProvider) : Int16;
14	IConvertible.ToInt32
15	
16	[C#] int IConvertible.ToInt32(IFormatProvider provider);
17	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
18	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
19	Implements IConvertible.ToInt32
20	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
21	IConvertible.ToInt64
22	
23	[C#] long IConvertible.ToInt64(IFormatProvider provider);
24	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
25	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements

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1	IConvertible.ToInt64
2	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
3	IConvertible.ToSByte
4	
5	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
6	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
7	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
8	Implements IConvertible.ToSByte
9	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
10	IConvertible.ToSingle
11	
12	[C#] float IConvertible.ToSingle(IFormatProvider provider);
13	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
14	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
15	Implements IConvertible.ToSingle
16	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
17	IConvertible.ToType
18	
19	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
20	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
21	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
22	As Object Implements IConvertible.ToType
23	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
24	Object;
25	IConvertible.ToUInt16

1	
2	[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
3	[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
4	[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
5	Implements IConvertible.ToUInt16
6	[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
7	IConvertible.ToUInt32
8	
9	[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
10	[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
11	[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
12	Implements IConvertible.ToUInt32
13	[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
14	IConvertible.ToUInt64
15	
16	[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
17	[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
18	[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
19	Implements IConvertible.ToUInt64
20	[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
21	ToString
22	
23	[C#] public override string ToString();
24	[C++] public: String* ToString();
25	[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the numeric value of this instance to its equivalent **String** representation. 2 3 Description Converts the numeric value of this instance to its equivalent String 5 representation. 6 Return Value: The System.String representation of the value of this instance, 7 consisting of a sequence of digits ranging from 0 to 9, without a sign or leading 8 zeroes. 9 The return value is formatted with the general format specifier ("G") and 10 the System.Globalization.NumberFormatInfo for the current culture. 11 **ToString** 12 13 [C#] public string ToString(IFormatProvider provider); 14 [C++] public: sealed String* ToString(IFormatProvider* provider); 15 [VB] NotOverridable Public Function ToString(ByVal provider As 16 lFormatProvider) As String 17 [JScript] public function ToString(provider : IFormatProvider) : String; 18 19 Description 20 Converts the numeric value of this instance to its equivalent String 21 representation using the specified culture-specific format information. 22 Return Value: The System.String representation of the value of this instance as 23

specified by provider.

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This instance is formatted with the general format specifier ("G"). An System.IFormatProvider interface implementation which supplies culturespecific formatting information. **ToString** [C#] public string ToString(string format); [C++] public: String* ToString(String* format); [VB] Public Function ToString(ByVal format As String) As String [JScript] public function ToString(format : String) : String; Description Converts the numeric value of this instance to its equivalent **String** representation using the specified format. Return Value: The System.String representation of the value of this instance as specified by format. If format is **null** or an empty string ("") the return value of this instance is formatted with the general format specifier ("G"). A format string. **ToString** [C#] public string ToString(string format, IFormatProvider provider); [C++] public: _sealed String* ToString(String* format, IFormatProvider* provider); [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal

[JScript] public function ToString(format : String, provider : IFormatProvider) :

provider As IFormatProvider) As String

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Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified format and culture-specific format information. *Return Value:* The **System.String** representation of the value of this instance as specified by *format* and *provider*.

If *format* is **null** or an empty string ("") the return value for this instance is formatted with the general format specifier ("G"). A format specification. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about this instance.

UInt64 structure (System)

ToString

Description

Represents a 64-bit unsigned integer.

The **UInt64** value type represents unsigned integers with values ranging from 0 to 184,467,440,737,095,551,615.

ToString

[C#] public const ulong MaxValue;

[C++] public: const unsigned int64 MaxValue;

[VB] Public Const MaxValue As UInt64

[JScript] public var MaxValue : UInt64;

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1	
2	Description
3	A constant representing the largest possible value of UInt64.
4	The value of this constant is 18,446,744,073,709,551,615; that is,
5	hexadecimal 0xFFFFFFFFFFFFFF.
6	ToString
7	
8	[C#] public const ulong MinValue;
9	[C++] public: const unsignedint64 MinValue;
10	[VB] Public Const MinValue As UInt64
11	[JScript] public var MinValue : UInt64;
12	
13	Description
14	A constant representing the smallest possible value of UInt64.
15	The value of this constant is 0.
16	CompareTo
17	
18	[C#] public int CompareTo(object value);
19	[C++] public:sealed int CompareTo(Object* value);
20	[VB] NotOverridable Public Function CompareTo(ByVal value As Object) As
21	Integer
22	[JScript] public function CompareTo(value : Object) : int;
23	
24	Description
25	

1	Compares this instance to a specified object and returns an indication of
2	their relative values.
3	Return Value: A signed number indicating the relative values of this instance and
4	value .
5	Any instance of UInt64, regardless of its value, is considered greater than
6	null. An object to compare, or null.
7	Equals
8	
9	[C#] public override bool Equals(object obj);
10	[C++] public: bool Equals(Object* obj);
11	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
12	[JScript] public override function Equals(obj : Object) : Boolean;
13	
14	Description
15	Returns a value indicating whether this instance is equal to a specified
16	object.
17	Return Value: true if obj is an instance of UInt64 and equals the value of this
18	instance; otherwise, false. An object to compare with this instance.
19	GetHashCode
20	
21	[C#] public override int GetHashCode();
22	[C++] public: int GetHashCode();
23	[VB] Overrides Public Function GetHashCode() As Integer
24	[JScript] public override function GetHashCode(): int;
25	

Description
Returns the hash code for this instance.
Return Value: A 32-bit signed integer hash code.
GetTypeCode
<pre>[C#] public TypeCode GetTypeCode();</pre>
[C++] public:sealed TypeCode GetTypeCode();
[VB] NotOverridable Public Function GetTypeCode() As TypeCode
[JScript] public function GetTypeCode(): TypeCode;
Description
Returns the TypeCode for value type UInt64.
Return Value: The enumerated constant, System.TypeCode.UInt64.
Parse
[C#] public static ulong Parse(string s);
[C++] public: static unsignedint64 Parse(String* s);
[VB] Public Shared Function Parse(ByVal s As String) As UInt64
[JScript] public static function Parse(s : String) : UInt64; Converts the String
representation of a number to its 64-bit unsigned integer equivalent.
Description

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Converts the **String** representation of a number to its 64-bit unsigned integer equivalent.

Return Value: An 64-bit unsigned integer equivalent to the number contained in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert.

Parse

[C#] public static ulong Parse(string s, IFormatProvider provider);

[C++] public: static unsigned __int64 Parse(String* s, IFormatProvider* provider);

[VB] Public Shared Function Parse(ByVal s As String, ByVal provider As IFormatProvider) As UInt64

[JScript] public static function Parse(s : String, provider : IFormatProvider) : UInt64;

Description

Converts the **String** representation of a number in a specified culturespecific format to its 64-bit unsigned integer equivalent.

Return Value: An 64-bit unsigned integer equivalent to the number specified in s.

s contains a number of the form: [ws][sign]digits[ws] Items in square brackets ('[' and ']') are optional, and other items are as follows. A **System.String** containing a number to convert. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about s.

Parse

1	
2	[C#] public static ulong Parse(string s, NumberStyles style);
3	[C++] public: static unsignedint64 Parse(String* s, NumberStyles style);
4	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
5	NumberStyles) As UInt64
6	[JScript] public static function Parse(s : String, style : NumberStyles) : UInt64;
7	
8	Description
9	Converts the String representation of a number in a specified style to its
10	64-bit unsigned integer equivalent.
11	Return Value: An 64-bit unsigned integer equivalent to the number specified in s .
12	s contains a number of the form: [ws][sign]digits[ws] Items in square
13	brackets ('[' and ']') are optional, and other items are as follows. A System.String
14	containing a number to convert. The combination of one or more
15	System.Globalization.NumberStyles constants that indicate the permitted format
16	of s.
17	Parse
18	
19	[C#] public static ulong Parse(string s, NumberStyles style, IFormatProvider
20	provider);
21	[C++] public: static unsignedint64 Parse(String* s, NumberStyles style,
22	IFormatProvider* provider);
23	[VB] Public Shared Function Parse(ByVal s As String, ByVal style As
24	NumberStyles, ByVal provider As IFormatProvider) As UInt64
25	[JScript] public static function Parse(s : String, style : NumberStyles, provider :

1	IFormatProvider): UInt64;
2	
3	Description
4	Converts the String representation of a number in a specified style and
5	culture-specific format to its 64-bit unsigned integer equivalent.
6	Return Value: An 64-bit unsigned integer equivalent to the number specified in s .
7	s contains a number of the form: [ws][sign]digits[ws] Items in square
8	brackets ('[' and ']') are optional, and other items are as follows. A System.String
9	containing a number to convert. The combination of one or more
10	System.Globalization.NumberStylesconstants that indicate the permitted format
11	of s. An System.IFormatProvider interface implementation which supplies
12	culture-specific formatting information about s.
13	IConvertible.ToBoolean
14	
15	[C#] bool IConvertible.ToBoolean(IFormatProvider provider);
16	[C++] bool IConvertible::ToBoolean(IFormatProvider* provider);
17	[VB] Function ToBoolean(ByVal provider As IFormatProvider) As Boolean
18	Implements IConvertible.ToBoolean
19	[JScript] function IConvertible.ToBoolean(provider : IFormatProvider) : Boolean;
20	IConvertible.ToByte
21	
22	[C#] byte IConvertible.ToByte(IFormatProvider provider);
23	[C++] unsigned char IConvertible::ToByte(IFormatProvider* provider);
24	[VB] Function ToByte(ByVal provider As IFormatProvider) As Byte Implements
25	

1	IConvertible.ToByte
2	[JScript] function IConvertible.ToByte(provider : IFormatProvider) : Byte;
3	IConvertible.ToChar
4	
5	[C#] char IConvertible.ToChar(IFormatProvider provider);
6	[C++]wchar_t IConvertible::ToChar(IFormatProvider* provider);
7	[VB] Function ToChar(ByVal provider As IFormatProvider) As Char Implements
8	IConvertible.ToChar
9	[JScript] function IConvertible.ToChar(provider : IFormatProvider) : Char;
10	IConvertible.ToDateTime
11	
12	[C#] DateTime IConvertible.ToDateTime(IFormatProvider provider);
13	[C++] DateTime IConvertible::ToDateTime(IFormatProvider* provider);
14	[VB] Function ToDateTime(ByVal provider As IFormatProvider) As DateTime
15	Implements IConvertible.ToDateTime
16	[JScript] function IConvertible.ToDateTime(provider : IFormatProvider) :
17	DateTime;
18	IConvertible.ToDecimal
19	
20	[C#] decimal IConvertible.ToDecimal(IFormatProvider provider);
21	[C++] Decimal IConvertible::ToDecimal(IFormatProvider* provider);
22	[VB] Function ToDecimal(ByVal provider As IFormatProvider) As Decimal
23	Implements IConvertible.ToDecimal
24	[JScript] function IConvertible.ToDecimal(provider : IFormatProvider) : Decimal;
25	IConvertible.ToDouble

1	
2	[C#] double IConvertible.ToDouble(IFormatProvider provider);
3	[C++] double IConvertible::ToDouble(IFormatProvider* provider);
4	[VB] Function ToDouble(ByVal provider As IFormatProvider) As Double
5	Implements IConvertible.ToDouble
6	[JScript] function IConvertible.ToDouble(provider : IFormatProvider) : double;
7	IConvertible.ToInt16
8	
9	[C#] short IConvertible.ToInt16(IFormatProvider provider);
10	[C++] short IConvertible::ToInt16(IFormatProvider* provider);
11	[VB] Function ToInt16(ByVal provider As IFormatProvider) As Short
12	Implements IConvertible.ToInt16
13	[JScript] function IConvertible.ToInt16(provider: IFormatProvider): Int16;
14	IConvertible.ToInt32
15	
16	[C#] int IConvertible.ToInt32(IFormatProvider provider);
17	[C++] int IConvertible::ToInt32(IFormatProvider* provider);
18	[VB] Function ToInt32(ByVal provider As IFormatProvider) As Integer
19	Implements IConvertible.ToInt32
20	[JScript] function IConvertible.ToInt32(provider : IFormatProvider) : int;
21	IConvertible.ToInt64
22	
23	[C#] long IConvertible.ToInt64(IFormatProvider provider);
24	[C++]int64 IConvertible::ToInt64(IFormatProvider* provider);
25	[VB] Function ToInt64(ByVal provider As IFormatProvider) As Long Implements

1	IConvertible.ToInt64
2	[JScript] function IConvertible.ToInt64(provider : IFormatProvider) : long;
3	IConvertible.ToSByte
4	
5	[C#] sbyte IConvertible.ToSByte(IFormatProvider provider);
6	[C++] char IConvertible::ToSByte(IFormatProvider* provider);
7	[VB] Function ToSByte(ByVal provider As IFormatProvider) As SByte
8	Implements IConvertible.ToSByte
9	[JScript] function IConvertible.ToSByte(provider : IFormatProvider) : SByte;
10	IConvertible.ToSingle
11	
12	[C#] float IConvertible.ToSingle(IFormatProvider provider);
13	[C++] float IConvertible::ToSingle(IFormatProvider* provider);
14	[VB] Function ToSingle(ByVal provider As IFormatProvider) As Single
15	Implements IConvertible.ToSingle
16	[JScript] function IConvertible.ToSingle(provider : IFormatProvider) : float;
17	IConvertible.ToType
18	
19	[C#] object IConvertible.ToType(Type type, IFormatProvider provider);
20	[C++] Object* IConvertible::ToType(Type* type, IFormatProvider* provider);
21	[VB] Function ToType(ByVal type As Type, ByVal provider As IFormatProvider)
22	As Object Implements IConvertible.ToType
23	[JScript] function IConvertible.ToType(type: Type, provider: IFormatProvider):
24	Object;
25	IConvertible.ToUInt16

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[C#] ushort IConvertible.ToUInt16(IFormatProvider provider);
[C++] unsigned short IConvertible::ToUInt16(IFormatProvider* provider);
[VB] Function ToUInt16(ByVal provider As IFormatProvider) As UInt16
Implements IConvertible.ToUInt16
[JScript] function IConvertible.ToUInt16(provider: IFormatProvider): UInt16;
IConvertible.ToUInt32
[C#] uint IConvertible.ToUInt32(IFormatProvider provider);
[C++] unsigned int IConvertible::ToUInt32(IFormatProvider* provider);
[VB] Function ToUInt32(ByVal provider As IFormatProvider) As UInt32
Implements IConvertible.ToUInt32
[JScript] function IConvertible.ToUInt32(provider : IFormatProvider) : UInt32;
IConvertible.ToUInt64
[C#] ulong IConvertible.ToUInt64(IFormatProvider provider);
[C++] unsignedint64 IConvertible::ToUInt64(IFormatProvider* provider);
[VB] Function ToUInt64(ByVal provider As IFormatProvider) As UInt64
Implements IConvertible.ToUInt64
[JScript] function IConvertible.ToUInt64(provider : IFormatProvider) : UInt64;
ToString
[C#] public override string ToString();
[C++] public: String* ToString();
[VB] Overrides Public Function ToString() As String

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[JScript] public override function ToString(): String; Converts the numeric value	е
of this instance to its equivalent String representation.	

Description

Converts the numeric value of this instance to its equivalent **String** representation.

Return Value: The **System.String** representation of the value of this instance, consisting of a sequence of digits ranging from 0 to 9, without a sign or leading zeroes.

The return value is formatted with the general format specifier ("G") and the **System.Globalization.NumberFormatInfo** for the current culture.

ToString

[C#] public string ToString(IFormatProvider provider);

[C++] public: __sealed String* ToString(IFormatProvider* provider);

[VB] NotOverridable Public Function ToString(ByVal provider As

lFormatProvider) As String

[JScript] public function ToString(provider : IFormatProvider) : String;

Description

23

24

25

Converts the numeric value of this instance to its equivalent **String** representation using the specified culture-specific format information.

Return Value: The **System.String** representation of the value of this instance as specified by *provider*.

This instance is formatted with the general format specifier ("G"). An 1 System.IFormatProvider interface implementation which supplies culture-2 specific formatting information. 3 **ToString** 4 5 [C#] public string ToString(string format); 6 [C++] public: String* ToString(String* format); 7 [VB] Public Function ToString(ByVal format As String) As String 8 [JScript] public function ToString(format : String) : String; 9 10 Description 11 Converts the numeric value of this instance to its equivalent String 12 representation using the specified format. 13 Return Value: The System.String representation of the value of this instance as 14 specified by format. 15 If format is **null** or an empty string (""), the return value of this instance is 16 formatted with the general format specifier ("G"). A format string. 17 **ToString** 18 19 [C#] public string ToString(string format, IFormatProvider provider); 20 [C++] public: sealed String* ToString(String* format, IFormatProvider* 21 provider); 22 [VB] NotOverridable Public Function ToString(ByVal format As String, ByVal 23 provider As IFormatProvider) As String 24

[JScript] public function ToString(format : String, provider : IFormatProvider) :

String;

Description

Converts the numeric value of this instance to its equivalent **String** representation using the specified format and culture-specific format information. *Return Value:* The **System.String** representation of the value of this instance as specified by *format* and *provider*.

If *format* is **null** or an empty string (""), the return value for this instance is formatted with the general format specifier ("G"). A format specification. An **System.IFormatProvider** interface implementation which supplies culture-specific formatting information about this instance.

UIntPtr structure (System)

ToString

Description

A platform-specific type that is used to represent a pointer or a handle.

The **System.UIntPtr** type is designed to be a platform-specific, machine-sized integer. That is, an instance of this type is expected to be 32-bits on 32-bit hardware and operating systems, and 64-bits on 64-bit hardware and operating systems.

ToString

[C#] public static readonly UIntPtr Zero;

[C++] public: static UIntPtr Zero;

[VB] Public Shared ReadOnly Zero As UIntPtr [JScript] public static var Zero : UIntPtr; 2 3 Description A read-only field that represents an uninitialized pointer or handle. 5 The value of this field is not equivalent to null, but is instead a pointer 6 which has not been assigned any value whatsoever. Use this field to efficiently 7 determine whether an instance of UIntPtr has been set. 8 **UIntPtr** 9 Example Syntax: 10 **ToString** 11 12 [C#] public UIntPtr(uint value); 13 [C++] public: UIntPtr(unsigned int value); 14 [VB] Public Sub New(ByVal value As UInt32) 15 [JScript] public function UIntPtr(value : UInt32); Initializes a new instance of the 16 System.UIntPtr structure. 17 18 Description 19 Initializes a new instance of the System.UIntPtr structure to the specified 20 32-bit pointer or handle. A pointer or handle contained in a 32-bit unsigned 21 integer. 22 **UIntPtr** 23 Example Syntax: 24 **ToString** 25

```
1
    [C#] public UIntPtr(ulong value);
2
    [C++] public: UIntPtr(unsigned __int64 value);
3
    [VB] Public Sub New(ByVal value As UInt64)
4
    [JScript] public function UIntPtr(value : UInt64);
5
6
    Description
7
           Initializes a new instance of the System.UIntPtr structure to the specified
8
    64-bit pointer or handle.
9
           An exception is only thrown if the value of value requires more bits than
10
    the current platform supports. A pointer or handle contained in a 64-bit unsigned
11
    integer.
12
           UIntPtr
13
           Example Syntax:
14
           ToString
15
16
    [C#] unsafe public UIntPtr(void* value);
17
    [C++] public: UIntPtr(void* value);
18
            Size
19
            ToString
20
21
     [C#] public static int Size {get;}
22
     [C++] public: __property static int get_Size();
23
     [VB] Public Shared ReadOnly Property Size As Integer
24
     [JScript] public static function get Size(): int;
```

1	
2	Description
3	Gets the size of this instance.
4	Equals
5	
6	[C#] public override bool Equals(object obj);
7	[C++] public: bool Equals(Object* obj);
8	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
9	[JScript] public override function Equals(obj : Object) : Boolean;
10	
11	Description
12	Returns a value indicating whether this instance is equal to a specified
13	object.
14	Return Value: true if obj is an instance of UIntPtr and equals the value of this
15	instance; otherwise, false. An object to compare with this instance or null.
16	GetHashCode
17	
18	[C#] public override int GetHashCode();
19	[C++] public: int GetHashCode();
20	[VB] Overrides Public Function GetHashCode() As Integer
21	[JScript] public override function GetHashCode(): int;
22	
23	Description
24	Returns the hash code for this instance.
25	Return Value: A 32-bit signed integer hash code.

1	op_Equality
2	
3	[C#] public static bool operator ==(UIntPtr value1, UIntPtr value2);
4	[C++] public: static bool op_Equality(UIntPtr value1, UIntPtr value2);
5	[VB] returnValue = UIntPtr.op_Equality(value1, value2)
6	[JScript] returnValue = value1 == value2;
7	
8	Description
9	Determines whether two specified instances of System.UIntPtr are equal
10	Return Value: true if value1 equals value2; otherwise, false. A UIntPtr. A
11	UIntPtr.
12	op_Explicit
13	
14	[C#] public static explicit operator UIntPtr(uint value);
15	[C++] public: static UIntPtr op_Explicit(unsigned int value);
16	[VB] returnValue = UIntPtr.op_Explicit(value)
17	[JScript] returnValue = UIntPtr(value);
18	
19	Description
20	Converts the value of a 32-bit unsigned integer to an System.UIntPtr .
21	Return Value: A new instance of System.UIntPtr initialized to value. A 32-bit
22	unsigned integer.
23	op_Explicit
24	
25	[C#] public static explicit operator UIntPtr(ulong value);

```
[C++] public: static UIntPtr op_Explicit(unsigned __int64 value);
    [VB] returnValue = UIntPtr.op_Explicit(value)
2
    [JScript] returnValue = UIntPtr(value);
3
4
    Description
5
           Converts the value of a 64-bit unsigned integer to an System.UIntPtr .
6
    Return Value: A new instance of System.UIntPtr initialized to value. A 64-bit
7
    unsigned integer.
8
           op Explicit
9
10
    [C#] unsafe public static explicit operator void*(UIntPtr value);
11
    [C++] public: static void* op_Explicit();
12
           op Explicit
13
14
    [C#] public static explicit operator ulong(UIntPtr value);
15
    [C++] public: static unsigned __int64 op_Explicit();
    [VB] returnValue = UIntPtr.op_Explicit(value)
17
    [JScript] returnValue = UInt64(value);
18
19
    Description
20
            Converts the value of the specified System.UIntPtr instance to a 64-bit
21
     unsigned integer. A UIntPtr.
22
            op Explicit
23
24
     [C#] public static explicit operator uint(UIntPtr value);
25
```

1	[C++] public: static unsigned int op_Explicit();
2	[VB] returnValue = UIntPtr.op_Explicit(value)
3	[JScript] returnValue = UInt32(value);
4	
5	Description
6	Converts the value of the specified System.UIntPtr instance to a 32-bit
7	unsigned integer.
8	An exception is only thrown if the value of value requires more bits than
9	the current platform supports. A UIntPtr.
10	op_Explicit
11	
12	[C#] unsafe public static explicit operator UIntPtr(void* value);
13	[C++] public: static UIntPtr op_Explicit(void* value);
14	op_Inequality
15	
16	[C#] public static bool operator !=(UIntPtr value1, UIntPtr value2);
17	[C++] public: static bool op_Inequality(UIntPtr value1, UIntPtr value2);
18	[VB] returnValue = UIntPtr.op_Inequality(value1, value2)
19	[JScript] returnValue = value1 != value2;
20	
21	Description
22	Determines whether two specified instances of System.UIntPtr are not
23	equal.
24	Return Value: true if value1 does not equal value2; otherwise, false. A UIntPti
25	A UIntPtr.

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ISerializable.Ge	tObjectData
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[C#] void ISerializable.GetObjectData(SerializationInfo info, StreamingContext context);

[C++] void ISerializable::GetObjectData(SerializationInfo* info,

StreamingContext context);

[VB] Sub GetObjectData(ByVal info As SerializationInfo, ByVal context As

StreamingContext) Implements ISerializable.GetObjectData

[JScript] function ISerializable.GetObjectData(info: SerializationInfo, context:

StreamingContext);

ToPointer

[C#] unsafe public void* ToPointer();

[C++] public: void* ToPointer();

Description

Converts the value of this instance to a pointer to an unspecified type.

Return Value: A pointer to System.Void; that is, a pointer to memory containing data of an unspecified type.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String;

1	
2	Description
3	Converts the numeric value of this instance to its equivalent String
4	representation.
5	Return Value: The System.String representation of the value of this instance.
6	ToUInt32
7	
8	[C#] public uint ToUInt32();
9	[C++] public: unsigned int ToUInt32();
10	[VB] Public Function ToUInt32() As UInt32
11	[JScript] public function ToUInt32(): UInt32;
12	
13	Description
14	Converts the value of this instance to a 32-bit unsigned integer.
15	Return Value: A 32-bit unsigned integer.
16	An exception is only thrown if the value of <i>value</i> requires more bits than
17	the current platform supports.
18	ToUInt64
19	
20	[C#] public ulong ToUInt64();
21	[C++] public: unsignedint64 ToUInt64();
22	[VB] Public Function ToUInt64() As UInt64
23	[JScript] public function ToUInt64(): UInt64;
24	
25	Description

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1	Converts the value of this instance to a 64-bit unsigned integer.
2	Return Value: A a 64-bit unsigned integer.
3	UnauthorizedAccessException class (System)
4	ToUInt64
5	
6	
7	Description
8	The exception that is thrown when the operating system denies access
9	because of an I/O error or a specific type of security error.
10	UnauthorizedAccessException uses the HRESULT
11	COR_E_UNAUTHORIZEDACCESS, which has the value 0x80070005.
12	UnauthorizedAccessException
13	Example Syntax:
14	ToUInt64
15	
16	[C#] public UnauthorizedAccessException();
17	[C++] public: UnauthorizedAccessException();
18	[VB] Public Sub New()
19	[JScript] public function UnauthorizedAccessException(); Initializes a new
20	instance of the System.UnauthorizedAccessException class.
21	
22	Description
23	Initializes a new instance of the System.UnauthorizedAccessException
24	class.
25	UnauthorizedAccessException

1	Example Syntax:
2	ToUInt64
3	
4	[C#] public UnauthorizedAccessException(string message);
5	[C++] public: UnauthorizedAccessException(String* message);
6	[VB] Public Sub New(ByVal message As String)
7	[JScript] public function UnauthorizedAccessException(message : String);
8	
9	Description
10	Initializes a new instance of the System.UnauthorizedAccessException
11	class with a specified error message. The error message that explains the reason
12	for the exception.
13	UnauthorizedAccessException
14	Example Syntax:
15	ToUInt64
16	
17	[C#] protected UnauthorizedAccessException(SerializationInfo info,
18	StreamingContext context);
19	[C++] protected: UnauthorizedAccessException(SerializationInfo* info,
20	StreamingContext context);
21	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
22	StreamingContext)
23	[JScript] protected function UnauthorizedAccessException(info:
24	SerializationInfo, context: StreamingContext);
25	

Description

Initializes a new instance of the System.UnauthorizedAccessException class with serialized data. The System.Runtime.Serialization.SerializationInfo that holds the serialized object data about the exception being thrown. The System.Runtime.Serialization.StreamingContext that contains contextual information about the source or destination.

UnauthorizedAccessException

Example Syntax:

ToUInt64

[C#] public UnauthorizedAccessException(string message, Exception inner);
[C++] public: UnauthorizedAccessException(String* message, Exception* inner);
[VB] Public Sub New(ByVal message As String, ByVal inner As Exception)
[JScript] public function UnauthorizedAccessException(message: String, inner: Exception);

Description

Initializes a new instance of the **System.UnauthorizedAccessException** class with a specified error message and a reference to the inner exception that is the root cause of this exception.

When an **Exception** X is thrown as a direct result of a previous exception Y, the **System.Exception.InnerException** property of X should contain a reference to Y. The **InnerException** property returns the same value as was passed into the constructor, or **null** if the inner exception value was not supplied to the

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constructor. The error message that explains the reason for the exception. An instance of System. Exception that is the cause of the current Exception. If the inner parameter is non-null, then the current Exception is raised in a catch block

UnhandledExceptionEventArgs class (System)

Provides data for the event that is raised when there is an exception that is not handled by the application domain.

System.UnhandledExceptionEventArgs provides access to the exception object and a flag indicating whether the common language runtime is terminating. The System.UnhandledExceptionEventArgs is one of the parameters passed into $System. Unhandled Exception Event Handler \ .$

UnhandledExceptionEventArgs

ToString

1	
2	[C#] public UnhandledExceptionEventArgs(object exception, bool isTerminating)
3	[C++] public: UnhandledExceptionEventArgs(Object* exception, bool
4	isTerminating);
5	[VB] Public Sub New(ByVal exception As Object, ByVal isTerminating As
6	Boolean)
7	[JScript] public function UnhandledExceptionEventArgs(exception: Object,
8	isTerminating : Boolean);
9	
10	Description
11	Initializes a new instance of the System.UnhandledExceptionEventArgs
12	class with the exception object and a common language runtime termination flag.
13	The exception that is not handled. true if the runtime is terminating; otherwise,
14	false.
15	ExceptionObject
16	ToString
17	
18	[C#] public object ExceptionObject {get;}
19	[C++] public:property Object* get_ExceptionObject();
20	[VB] Public ReadOnly Property ExceptionObject As Object
21	[JScript] public function get ExceptionObject() : Object;
22	
23	Description
24	Gets the unhandled exception object.
25	IsTerminating

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[C#] public bool IsTerminating {get;}

[C++] public: __property bool get_IsTerminating();

[VB] Public ReadOnly Property IsTerminating As Boolean

[JScript] public function get IsTerminating(): Boolean;

Description

Indicates whether the common language runtime is terminating.

UnhandledExceptionEventHandler delegate (System)

ToString

Description

Represents the method that will handle the event triggered by an exception that is not handled by the application domain. The source of the unhandled exception event. An *UnhandledExceptionEventArgs* that contains the event data.

When you create an **System.UnhandledExceptionEventHandler** delegate, you identify the method that will handle the event. To associate the event handler with your event, add an instance of the delegate to the event. The event handler is called whenever the event occurs, unless you remove the delegate. For more information about event handler delegates, see .

ValueType class (System)

ToString

1	
2	
3	Description
4	Provides the base class for value types.
5	ValueType overrides the virtual methods from System.Object with more
6	appropriate implementations for value types. See also System.Enum, which
7	inherits from ValueType.
8	ValueType
9	Example Syntax:
10	ToString
11	
12	[C#] protected ValueType();
13	[C++] protected: ValueType();
14	[VB] Protected Sub New()
15	[JScript] protected function ValueType();
16	Equals
17	
18	[C#] public override bool Equals(object obj);
19	[C++] public: bool Equals(Object* obj);
20	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
21	[JScript] public override function Equals(obj : Object) : Boolean;
22	
23	Description
24	

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Indicates whether this instance and a specified object are equal.

Return Value: true if obj and this instance are the same type and represent the same value; otherwise, false. Another object to compare to.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode(): int;

Description

Returns the hash code for this instance.

Return Value: A 32-bit signed integer that is the hash code for this instance.

Any value types that are inserted into a Hashtable must override GetHashCode() for performance reasons. The default implementation on ValueType will return the same value for all instances of a particular type, which makes hashing as slow as a linked list. See the documentation for Object's GetHashCode for more details.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String;

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1	
2	Description
3	Returns the fully qualified type name of this instance.
4	Return Value: A System.String containing a fully qualified type name.
5	Version class (System)
6	ToString
7	
8	
9	Description
10	Represents the version number for a common language runtime assembly.
11	This class cannot be inherited.
12	Version numbers consist of four components: major, minor, build, and
13	revision. Components major and minor are required. Component revision is only
14	optional if build is not defined.
15	Version
16	Example Syntax:
17	ToString
18	
19	[C#] public Version();
20	[C++] public: Version();
21	[VB] Public Sub New()
22	[JScript] public function Version();
23	
24	Description
25	Initializes a new instance of the System. Version class.

1	Version
2	Example Syntax:
3	ToString
4	
5	[C#] public Version(string version);
6	[C++] public: Version(String* version);
7	[VB] Public Sub New(ByVal version As String)
8	[JScript] public function Version(version : String);
9	
10	Description
11	Initializes a new instance of the Version class using the value represented
12	by the specified String .
13	version can only contain components major, minor, build, and revision, in
14	that order and all separated by periods. There must be at least two components,
15	and at most four. The first two components are assumed to be major and minor. A
16	string containing the major, minor, build, and revision numbers, where each
17	number is delimited with a period character ('.').
18	Version
19	Example Syntax:
20	ToString
21	
22	[C#] public Version(int major, int minor);
23	[C++] public: Version(int major, int minor);
24	[VB] Public Sub New(ByVal major As Integer, ByVal minor As Integer)
25	[JScript] public function Version(major: int, minor: int);

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ializes a new instance of the Version class using the specified major and minor values.

Metadata restricts major and minor to a maximum value of System.UInt16.MaxValue - 1. The major version number. The minor version number.

Version

Example Syntax:

ToString

[C#] public Version(int major, int minor, int build);

[C++] public: Version(int major, int minor, int build);

[VB] Public Sub New(ByVal major As Integer, ByVal minor As Integer, ByVal build As Integer)

[JScript] public function Version(major: int, minor: int, build: int);

Description

Initializes a new instance of the Version class using the specified major, minor, and build values.

Metadata restricts major, minor, and build to a maximum value of System.UInt16.MaxValue - 1. The major version number. The minor version number. The build number.

Version

Example Syntax:

1	ToString
2	
3	[C#] public Version(int major, int minor, int build, int revision);
4	[C++] public: Version(int major, int minor, int build, int revision);
5	[VB] Public Sub New(ByVal major As Integer, ByVal minor As Integer, ByVal
6	build As Integer, ByVal revision As Integer)
7	[JScript] public function Version(major: int, minor: int, build: int, revision: int);
8	Initializes a new instance of the Version class with the specified major, minor,
9	build, and revision numbers.
10	
11	Description
12	Initializes a new instance of the Version class with the specified major,
13	minor, build, and revision numbers.
14	Metadata restricts major, minor, build, and revision to a maximum of
15	System.UInt16.MaxValue - 1. The major version number. The minor version
16	number. The build number. The revision number.
17	Build
18	ToString
19	
20	[C#] public int Build {get;}
21	[C++] public:property int get_Build();
22	[VB] Public ReadOnly Property Build As Integer
23	[JScript] public function get Build(): int;

Description

Gets the value of the build component of the version number for this 1 instance. 2 For example, if the version number is 6.2.1.3, the build number is 1. If the 3 version number is 6.2, the build number is undefined. Major **ToString** 7 [C#] public int Major {get;} 8 [C++] public: __property int get_Major(); [VB] Public ReadOnly Property Major As Integer 10 [JScript] public function get Major(): int; 11 12 Description 13 Gets the value of the major component of the version number for this 14 instance. 15 For example, if the version number is 6.2, the major version is 6. 16 Minor 17 **ToString** 18 19 [C#] public int Minor {get;} 20 [C++] public: __property int get_Minor(); 21 [VB] Public ReadOnly Property Minor As Integer 22 [JScript] public function get Minor(): int; 23 24 Description

Gets the value of the minor component of the version number for this instance. For example, if the version number is 6.2, the minor version is 2. 3 Revision **ToString** 5 [C#] public int Revision {get;} 7 [C++] public: __property int get_Revision(); 8 [VB] Public ReadOnly Property Revision As Integer [JScript] public function get Revision(): int; 11 Description 12 Gets the value of the revision component of the version number for this 13 instance. 14 For example, if the version number is 6.2.1.3, the revision number is 3. If 15 the version number is 6.2, the revision number is undefined. Clone 17 18 [C#] public object Clone(); 19 [C++] public: _ sealed Object* Clone(); 20 [VB] NotOverridable Public Function Clone() As Object 21 [JScript] public function Clone(): Object; 22 23 Description 24 25

1	Returns a new Version object whose value is the same as this instance.
2	Return Value: A copy of this Version object.
3	CompareTo
4	
5	[C#] public int CompareTo(object version);
6	[C++] public:sealed int CompareTo(Object* version);
7	[VB] NotOverridable Public Function CompareTo(ByVal version As Object) As
8	Integer
9	[JScript] public function CompareTo(version : Object) : int;
10	
11	Description
12	Compares this instance to a specified object and returns an indication of
13	their relative values.
14	Return Value: Return Value Description Less than zero This instance is prior to
15	version.
16	The components of Version in decreasing order of importance are: major
17	minor, build, and revision. An unknown component is assumed to be older than
18	any known component. An object to compare, or null.
19	Equals
20	
21	[C#] public override bool Equals(object obj);
22	[C++] public: bool Equals(Object* obj);
23	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
24	[JScript] public override function Equals(obj : Object) : Boolean;
25	

1	
2	Description
3	Returns a value indicating whether this instance is equal to a specified
4	object.
5	Return Value: true if this instance and version are both Version objects, and every
6	component of this instance matches the corresponding component of version;
7	otherwise, false. An object to compare with this instance.
8	GetHashCode
9	
10	[C#] public override int GetHashCode();
11	[C++] public: int GetHashCode();
12	[VB] Overrides Public Function GetHashCode() As Integer
13	[JScript] public override function GetHashCode(): int;
14	
15	Description
16	Returns a hash code for this instance.
17	Return Value: A 32-bit signed integer hash code.
18	op_Equality
19	
20	[C#] public static bool operator ==(Version v1, Version v2);
21	[C++] public: static bool op_Equality(Version* v1, Version* v2);
22	[VB] returnValue = Version.op_Equality(v1, v2)
23	[JScript] returnValue = v1 == v2;
24	
25	Description

Determines whether two specified instances of **Version** are equal. 1 Return Value: true if v1 equals v2; otherwise false. The first instance of Version. 2 The second instance of Version. 3 op GreaterThan 5 [C#] public static bool operator >(Version v1, Version v2); 6 [C++] public: static bool op_GreaterThan(Version* v1, Version* v2); 7 [VB] returnValue = Version.op GreaterThan(v1, v2) 8 [JScript] returnValue = v1 > v2; 9 10 Description 11 Determines whether the first specified instance of Version is greater than 12 the second specified instance of Version. 13 Return Value: true if v1 is greater than v2; otherwise false. The first instance of 14 **Version**. The second instance of **Version**. 15 op GreaterThanOrEqual 16 17 [C#] public static bool operator >=(Version v1, Version v2); 18 [C++] public: static bool op GreaterThanOrEqual(Version* v1, Version* v2); 19 [VB] returnValue = Version.op GreaterThanOrEqual(v1, v2) 20 [JScript] returnValue = $v1 \ge v2$; 21 22 Description 23 Determines whether the first specified instance of Version is greater than or 24 equal to the second instance of Version.

```
Return Value: true if v1 is greater than or equal to v2; otherwise false. The first
   instance of Version. The second instance of Version.
2
           op Inequality
3
    [C#] public static bool operator !=(Version v1, Version v2);
5
    [C++] public: static bool op_Inequality(Version* v1, Version* v2);
6
    [VB] returnValue = Version.op_Inequality(v1, v2)
7
    [JScript] returnValue = v1 != v2;
8
9
    Description
10
           Determines whether two specified instances of Version are not equal.
11
    Return Value: true if v1 does not equal v2; otherwise false. The first instance of
12
    Version. The second instance of Version.
13
            op LessThan
14
15
     [C#] public static bool operator
16
     [C++] public: static bool op_LessThan(Version* v1, Version* v2);
17
     [VB] returnValue = Version.op_LessThan(v1, v2)
18
     [JScript] returnValue = v1 < v2;
19
20
     Description
21
            Determines whether the first specified instance of Version is less than the
22
     second specified instance of Version.
23
     Return Value: true if v1 is less than v2; otherwise false. The first instance of
24
```

Version. The second instance of Version.

op LessThanOrEqual

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[C#] public static bool operator <=(Version v1, Version v2);

[C++] public: static bool op_LessThanOrEqual(Version* v1, Version* v2);

[VB] returnValue = Version.op_LessThanOrEqual(v1, v2)

[JScript] returnValue = $v1 \le v2$;

Description

Determines whether the first specified instance of **Version** is less than or equal to the second instance of **Version**.

Return Value: true if v1 is less than or equal to v2; otherwise false. The first instance of Version. The second instance of Version.

ToString

[C#] public override string ToString();

[C++] public: String* ToString();

[VB] Overrides Public Function ToString() As String

[JScript] public override function ToString(): String; Converts the value of this instance to its equivalent **String** representation.

Description

Converts the value of this instance to its equivalent **String** representation.

Return Value: The **System.String** representation of the values of the major, minor, build, and revision components of this instance, as depicted in the following format. Each component is separated by a period character ('.'). Square brackets ('['

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and ']') indicate a component that will not appear in the return value if the component is not defined: major.minor[.build[.revision]] For example, if you create an instance of Version using the constructor Version(1,1), the returned string is "1.1". If you create an instance of Version using the constructor Version(1,3,4,2), the returned string is "1.3.4.2".

ToString

[C#] public string ToString(int fieldCount);
[C++] public: String* ToString(int fieldCount);
[VB] Public Function ToString(ByVal fieldCount As Integer) As String
[JScript] public function ToString(fieldCount: int): String;

Converts the value of this instance to its equivalent **String** representation.

A specified count indicates the number of components to return.

Return Value: The **System.String** representation of the values of the major, minor, build, and revision components of this instance, each separated by a period character ('.'). The number of components to return.

Void structure (System)

ToString

Description

Indicates a method that does not return a value; that is, the method has the void return type.

1 This class is used in the System.Reflection namespace. This class has no members, and you cannot create an instance of this class. 2 WeakReference class (System) 3 **ToString** 5 6 Description 7 Represents a "weak reference", which references an object while still 8 allowing it to be garbage collected. 9 The common language runtime "garbage collection" mechanism reclaims 10 inaccessible (that is, "unreachable") memory allocated to an object. An object 11 becomes unreachable if all references to it become invalid, for example, by setting 12 those references to null. 13 WeakReference 14 Example Syntax: 15 **ToString** 16 17 [C#] public WeakReference(object target); 18 [C++] public: WeakReference(Object* target); 19 [VB] Public Sub New(ByVal target As Object) 20 [JScript] public function WeakReference(target : Object); Initializes a new 21 instance of the WeakReference class. 22 23 Description 24

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Initializes a new instance of the **WeakReference** class, referencing the specified object.

This constructor creates a short weak reference to *target*. The object to track.

WeakReference

Example Syntax:

ToString

[C#] public WeakReference(object target, bool trackResurrection);

[C++] public: WeakReference(Object* target, bool trackResurrection);

[VB] Public Sub New(ByVal target As Object, ByVal trackResurrection As

Boolean)

[JScript] public function WeakReference(target : Object, trackResurrection :

Boolean);

Description

Initializes a new instance of the **WeakReference** class, referencing the specified object and using the specified resurrection tracking.

If trackResurrection is false, a short weak reference is created. If trackResurrection is true, a long weak reference is created. Typically, only short weak references are needed. An object to track. Indicates when to stop tracking the object. If true, the object is tracked after finalization; if false, the object is only tracked until finalization.

WeakReference

Example Syntax:

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[C#] protected WeakReference(SerializationInfo info, StreamingContext context);

[C++] protected: WeakReference(SerializationInfo* info, StreamingContext context);

[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext)

[JScript] protected function WeakReference(info : SerializationInfo, context : StreamingContext);

Description

Initializes a new instance of the **System.WeakReference** class, using the specified serialization and stream information.

The *context* parameter is reserved, and does not currently participate in this operation. An object that holds all the data needed to serialize or deserialize this instance. (Reserved) Describes the source and destination of the serialized stream specified by *info*.

IsAlive

ToString

[C#] public virtual bool IsAlive {get;}

[C++] public: __property virtual bool get_IsAlive();

[VB] Overridable Public ReadOnly Property IsAlive As Boolean

[JScript] public function get IsAlive(): Boolean;

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Description

Gets an indication whether the object referenced by this instance has been garbage collected.

WeakReferenceException is thrown if the object referenced by this instance is invalid. This can occur if there is an attempt to resurrect the referenced object after it has been finalized.

Target

ToString

[C#] public virtual object Target {get; set;}

[C++] public: __property virtual Object* get_Target();public: __property virtual void set Target(Object*);

[VB] Overridable Public Property Target As Object

[JScript] public function get Target() : Object; public function set Target(Object);

Description

Gets or sets the object (the "target") referenced by this instance.

WeakReferenceException will be thrown if the reference to the object referenced by this instance is invalid. This can occur if there is an attempt to resurrect the referenced object after it has been finalized.

TrackResurrection

ToString

[C#] public virtual bool TrackResurrection {get;}

1	[C++] public:property virtual bool get_TrackResurrection();
2	[VB] Overridable Public ReadOnly Property TrackResurrection As Boolean
3	[JScript] public function get TrackResurrection(): Boolean;
4	
5	Description
6	Gets an indication whether the object referenced by this instance is tracked
7	after it is garbage collected and finalized.
8	Finalize
9	
10	[C#] ~WeakReference();
11	[C++] ~WeakReference();
12	[VB] Overrides Protected Sub Finalize()
13	[JScript] protected override function Finalize();
14	
15	Description
16	Frees any resources allocated by this instance.
17	GetObjectData
18	
19	[C#] public virtual void GetObjectData(SerializationInfo info, StreamingContext
20	context);
21	[C++] public: virtual void GetObjectData(SerializationInfo* info,
22	1
23	[VB] Overridable Public Sub GetObjectData(ByVal info As SerializationInfo,
24	
25	[JScript] public function GetObjectData(info : SerializationInfo, context :

StreamingContext);

Description

Populates a SerializationInfo object with all the data needed to serialize this instance.

This method stores all the information in info necessary to serialize this instance. A SerializationInfo object. (Reserved) The location where serialized data will be stored and retrieved.

Uri class (System)

ToString

Description

Provides an object representation of a uniform resource indentifier (URI) and easy access to the parts of the URI.

A URI is a compact representation of a resource available to your application on the Internet. The **System.Uri** class defines the properties and methods for handling URIs, including parsing, comparing, and combining. The **System.Uri** class properties are read-only, to modify a **System.Uri** instance use the **System.UriBuilder** class.

ToString

[C#] public static readonly string SchemeDelimiter;

[C++] public: static String* SchemeDelimiter;

[VB] Public Shared ReadOnly SchemeDelimiter As String

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1	[JScript] public static var SchemeDelimiter : String;
2	
3	Description
4	Specifies the characters that separate the communication protocol scheme
5	from the address portion of the URI. This field is read-only.
6	ToString
7	
8	[C#] public static readonly string UriSchemeFile;
9	[C++] public: static String* UriSchemeFile;
10	[VB] Public Shared ReadOnly UriSchemeFile As String
11	[JScript] public static var UriSchemeFile : String;
12	
13	Description
14	Specifies that the URI is a pointer to a file. This field is read-only.
15	ToString
16	
17	[C#] public static readonly string UriSchemeFtp;
18	[C++] public: static String* UriSchemeFtp;
19	[VB] Public Shared ReadOnly UriSchemeFtp As String
20	[JScript] public static var UriSchemeFtp : String;
21	
22	Description
23	Specifies that the URI is accessed through the File Transfer Protocol (FTP)
24	This field is read-only.
25	ToString

1	
2	[C#] public static readonly string UriSchemeGopher;
3	[C++] public: static String* UriSchemeGopher;
4	[VB] Public Shared ReadOnly UriSchemeGopher As String
5	[JScript] public static var UriSchemeGopher : String;
6	
7	Description
8	Specifies that the URI is accessed through the Gopher protocol. This field
9	is read-only.
10	ToString
11	
12	[C#] public static readonly string UriSchemeHttp;
13	[C++] public: static String* UriSchemeHttp;
14	[VB] Public Shared ReadOnly UriSchemeHttp As String
15	[JScript] public static var UriSchemeHttp : String;
16	
17	Description
18	Specifies that the URI is accessed through the Hypertext Transfer Protocol
19	(HTTP). This field is read-only.
20	ToString
21	
22	[C#] public static readonly string UriSchemeHttps;
23	[C++] public: static String* UriSchemeHttps;
24	[VB] Public Shared ReadOnly UriSchemeHttps As String
25	[JScript] public static var UriSchemeHttps : String;

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2	Description
3	Specifies that the URI is accessed through the Secure Hypertext Transfer
4	Protocol (HTTPS). This field is read-only.
	ToString
5	Tobumg
6	[C#] public static readonly string UriSchemeMailto;
7	[C++] public: static String* UriSchemeMailto;
8	[VB] Public Shared ReadOnly UriSchemeMailto As String
9	
10	[JScript] public static var UriSchemeMailto : String;
11	
12	Description
13	Specifies that the URI is an email address and is accessed through the
14	Simple Network Mail Protocol (SNMP). This field is read-only.
15	ToString
16	
17	[C#] public static readonly string UriSchemeNews;
18	[C++] public: static String* UriSchemeNews;
19	[VB] Public Shared ReadOnly UriSchemeNews As String
20	[JScript] public static var UriSchemeNews : String;
21	
22	Description
23	Specifes that the URI is an Internet news group and is accessed through th
	1

ıe Network News Transport Protocol (NNTP). This field is read-only.

ToString

1	
2	[C#] public static readonly string UriSchemeNntp;
3	[C++] public: static String* UriSchemeNntp;
4	[VB] Public Shared ReadOnly UriSchemeNntp As String
5	[JScript] public static var UriSchemeNntp : String;
6	
7	Description
8	Specifes that the URI is an Internet news group and is accessed through the
9	Network News Transport Protocol (NNTP). This field is read-only.
10	Uri
11	Example Syntax:
12	ToString
13	
14	[C#] public Uri(string uriString);
15	[C++] public: Uri(String* uriString);
16	[VB] Public Sub New(ByVal uriString As String)
17	[JScript] public function Uri(uriString : String); Initializes a new instance of the
18	System.Uri class.
19	
20	Description
21	Initializes a new instance of the System.Uri class with the specified URI.
22	This constructor creates a System.Uri instance from a URI string. It parses
23	the URI, puts it in canonical format, and makes any required escape encodings. A
24	URI.
25	Uri

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d Uri(SerializationInfo serializationInfo, StreamingContext ntext);

ted: Uri(SerializationInfo* serializationInfo, StreamingContext ntext);

ed Sub New(ByVal serializationInfo As SerializationInfo, ByVal ntext As StreamingContext)

tected function Uri(serializationInfo: SerializationInfo, ntext: StreamingContext);

lizes a new instance of the System. Uri class from the specified the System.Runtime.Serialization.SerializationInfo and time.Serialization.StreamingContext classes.

constructor implements the

System.Runtime.Serialization.ISerializable interface for the System.Uri class.

An instance of the System.Runtime.Serialization.SerializationInfo class containing the information required to serialize the new System.Uri instance. An instance of the System.Runtime.Serialization.StreamingContext class containing the source of the serialized stream associated with the new System.Uri instance.

Uri

Example Syntax:

1	ToString
2	
3	[C#] public Uri(string uriString, bool dontEscape);
4	[C++] public: Uri(String* uriString, bool dontEscape);
5	[VB] Public Sub New(ByVal uriString As String, ByVal dontEscape As Boolean)
6	[JScript] public function Uri(uriString : String, dontEscape : Boolean);
7	
8	Description
9	Initializes a new instance of the System.Uri class with the specified URI,
10	with control of character escaping.
11	This constructor creates a System.Uri instance from a URI string. It parses
12	the URI, and puts it in canonical format. The caller must set dontEscape to true if
13	the URI is already escaped, or false if the constructor should transform the URI to
14	its escaped encoding. The URI. true if the URI contains escape characters;
15	otherwise, false.
16	Uri
17	Example Syntax:
18	ToString
19	
20	[C#] public Uri(Uri baseUri, string relativeUri);
21	[C++] public: Uri(Uri* baseUri, String* relativeUri);
22	[VB] Public Sub New(ByVal baseUri As Uri, ByVal relativeUri As String)
23	[JScript] public function Uri(baseUri : Uri, relativeUri : String);
24	
25	Description

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Initializes a new instance of the **System.Uri** class based on the specified base and relative URIs.

This constructor creates a **System.Uri** instance by combining the *baseUri* and the *relativeUri*. If *relativeUri* is an absolute URI (containing a scheme, hostname, and optionally a port number) the **System.Uri** instance is created using only *relativeUri*. The base URI. The relative URI to add to the base URI.

Uri

Example Syntax:

ToString

[C#] public Uri(Uri baseUri, string relativeUri, bool dontEscape);

[C++] public: Uri(Uri* baseUri, String* relativeUri, bool dontEscape);

[VB] Public Sub New(ByVal baseUri As Uri, ByVal relativeUri As String, ByVal dontEscape As Boolean)

[JScript] public function Uri(baseUri : Uri, relativeUri : String, dontEscape : Boolean);

Description

Initializes a new instance of the **System.Uri** class based on the specified base and releative URIs, with control of character escaping.

This constructor creates a **System.Uri** instance by combining *baseUri* and *relativeUri*. If the URI passed in *relativeUri* is an absolute URI (containing a scheme, hostname, and optionally a port number) the **System.Uri** instance is created using only *relativeUri*. The caller must set *dontEscape* to **true** if the URI

1	is already escaped. The base URI. The relative URI to add to the base URI. true if
2	the URI contains escape characters; otherwise, false.
3	AbsolutePath
4	ToString
5	
6	[C#] public string AbsolutePath {get;}
7	[C++] public:property String* get_AbsolutePath();
8	[VB] Public ReadOnly Property AbsolutePath As String
9	[JScript] public function get AbsolutePath(): String;
10	
11	Description
12	Gets the absolute path of the URI.
13	The System.Uri.AbsolutePath property contains the path information that
14	the server uses to resolve requests for information. Typically this is the path to the
15	desired information on the server's file system, although it also can indicate the
16	application or script the server must run to provide the information.
17	AbsoluteUri
18	ToString
19	
20	[C#] public string AbsoluteUri {get;}
21	[C++] public:property String* get_AbsoluteUri();
22	[VB] Public ReadOnly Property AbsoluteUri As String
23	[JScript] public function get AbsoluteUri(): String;
24	
25	Description

1	Gets the absolute URI.
2	The System.Uri.AbsoluteUri property includes the entire URI stored in the
3	System.Uri instance, including all fragments and query strings.
4	Authority
5	ToString
6	
7	[C#] public string Authority {get;}
8	[C++] public:property String* get_Authority();
9	[VB] Public ReadOnly Property Authority As String
10	[JScript] public function get Authority(): String;
11	
12	Description
13	Gets the Domain Name System (DNS) host name or IP address and the port
14	number for a server.
15	The Authority property returns the fully qualified DNS host name or IP
16	address of the server specified in the URI, along with the port number for non-
17	default ports.
18	Fragment
19	ToString
20	
21	[C#] public string Fragment {get;}
22	[C++] public:property String* get_Fragment();
23	[VB] Public ReadOnly Property Fragment As String
24	[JScript] public function get Fragment(): String;
25	

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Gets the escaped fragment.

The **System.Uri.Fragment** property gets any text following a fragment marker (#) in the URI, including the fragment marker itself. Given the URI http://www.contoso.com/index.htm#main, the fragment property would get #main.

Host

ToString

[C#] public string Host {get;}

[C++] public: property String* get Host();

[VB] Public ReadOnly Property Host As String

[JScript] public function get Host(): String;

Description

Gets the Domain Name System (DNS) host name, or IP address of the server specified in the URI.

The **System.Uri.Host** property gets the fully qualified DNS host name or IP address of the server specified in the URI.

HostNameType

ToString

[C#] public UriHostNameType HostNameType {get;}

[C++] public: __property UriHostNameType get_HostNameType();

1	[VB] Public ReadOnly Property HostNameType As UriHostNameType
2	[JScript] public function get HostNameType(): UriHostNameType;
3	
4	Description
5	Returns the type of the host name specified in the URI.
6	IsDefaultPort
7	ToString
8	
9	[C#] public bool IsDefaultPort {get;}
10	[C++] public:property bool get_IsDefaultPort();
11	[VB] Public ReadOnly Property IsDefaultPort As Boolean
12	[JScript] public function get IsDefaultPort(): Boolean;
13	
14	Description
15	Gets a value indicating whether the port value of the URI is the default for
16	this scheme.
17	IsFile
18	ToString
19	
20	[C#] public bool IsFile {get;}
21	[C++] public:property bool get_IsFile();
22	[VB] Public ReadOnly Property IsFile As Boolean
23	[JScript] public function get IsFile(): Boolean;
24	
25	Description

1	Gets a value indicating whether the specified System.Uri is a file URI.
2	The System.Uri.IsFile property is true when the System.Uri.Scheme
3	property equals System.Uri.UriSchemeFile.
4	IsLoopback
5	ToString
6	
7	[C#] public bool IsLoopback {get;}
8	[C++] public:property bool get_IsLoopback();
9	[VB] Public ReadOnly Property IsLoopback As Boolean
10	[JScript] public function get IsLoopback(): Boolean;
11	
12	Description
13	Gets a value indicating whether the specified System.Uri references the
14	local host.
15	IsUnc
16	ToString
17	
18	[C#] public bool IsUnc {get;}
19	[C++] public:property bool get_IsUnc();
20	[VB] Public ReadOnly Property IsUnc As Boolean
21	[JScript] public function get IsUnc(): Boolean;
22	
23	Description
24	Gets a value indicating whether the specified System.Uri is a universal
25	naming convention (UNC) path.

1	The System.Uri.IsUnc property is true if the specified System.Uri
2	instance is a UNC path (suc as \\server\folder).
3	LocalPath
4	ToString
5	
6	[C#] public string LocalPath {get;}
7	[C++] public:property String* get_LocalPath();
8	[VB] Public ReadOnly Property LocalPath As String
9	[JScript] public function get LocalPath(): String;
10	
11	Description
12	Gets a local operating-system representation of a file name.
13	PathAndQuery
14	ToString
15	
16	[C#] public string PathAndQuery {get;}
17	[C++] public:property String* get_PathAndQuery();
18	[VB] Public ReadOnly Property PathAndQuery As String
19	[JScript] public function get PathAndQuery(): String;
20	
21	Description
22	Gets the System.Uri.AbsolutePath and System.Uri.Query properties
23	separated by a question mark (?).
24	
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1	The System.Uri.PathAndQuery property contains the absolute path on the
2	server and the query information sent with the request. It is identical to
3	concatenating the System.Uri.AbsolutePath and System.Uri.Query properties.
4	Port
5	ToString
6	
7	[C#] public int Port {get;}
8	[C++] public:property int get_Port();
9	[VB] Public ReadOnly Property Port As Integer
10	[JScript] public function get Port(): int;
11	
12	Description
13	Gets the port number of the specified URI.
14	The port number defines the protocol port used for contacting the server
15	referenced in the URI. If a port is not is not specified as part of the URI, the
16	System.Uri.Port property returns the default value for the protocol.
17	Query
18	ToString
19	
20	[C#] public string Query {get;}
21	[C++] public:property String* get_Query();
22	[VB] Public ReadOnly Property Query As String
23	[JScript] public function get Query() : String;
24	
25	Description

1	Gets any query information included in the specified URI.
2	The System.Uri.Query property contains any query information included
3	in the URI. Query information is separated from the path information by a
4	question mark (?) and continues to the end of the URI. The query information
5	returned includes the leading question mark.
6	Scheme
7	ToString
8	
9	[C#] public string Scheme {get;}
10	[C++] public:property String* get_Scheme();
11	[VB] Public ReadOnly Property Scheme As String
12	[JScript] public function get Scheme(): String;
13	
14	Description
15	Gets the scheme name of the specified URI.
16	The following table lists the valid scheme names for the
17	System.Uri.Scheme property.
18	Segments
19	ToString
20	
21	[C#] public string[] Segments {get;}
22	[C++] public:property String* get_Segments();
23	[VB] Public ReadOnly Property Segments As String ()
24	[JScript] public function get Segments(): String[];
25	

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1	Dogavintion
2	Description
3	Gets an array of the segments that make up the specified URI.
4	UserEscaped
5	ToString
6	
7	[C#] public bool UserEscaped {get;}
8	[C++] public:property bool get_UserEscaped();
9	[VB] Public ReadOnly Property UserEscaped As Boolean
10	[JScript] public function get UserEscaped(): Boolean;
11	
12	Description
13	Indicates that the URI string was escaped before the System.Uri instance
14	was created.
15	The System.Uri.UserEscaped property is set to true to indicate that the
16	string used to create the System.Uri instance was escaped before it was passed to
17	the constructor; that is, the <i>dontEscape</i> parameter of the constructor call was set to
18	true .
19	UserInfo
20	ToString
21	
22	[C#] public string UserInfo {get;}
23	[C++] public:property String* get_UserInfo();
24	[VB] Public ReadOnly Property UserInfo As String
25	[JScript] public function get UserInfo() : String;

1	
2	Description
3	Gets the user name, password, and other user-specific information
4	associated with the specified URI.
5	Canonicalize
6	
7	[C#] protected virtual void Canonicalize();
8	[C++] protected: virtual void Canonicalize();
9	[VB] Overridable Protected Sub Canonicalize()
10	[JScript] protected function Canonicalize();
11	
12	Description
13	CheckHostName
14	
15	[C#] public static UriHostNameType CheckHostName(string name);
16	[C++] public: static UriHostNameType CheckHostName(String* name);
17	[VB] Public Shared Function CheckHostName(ByVal name As String) As
18	UriHostNameType
19	[JScript] public static function CheckHostName(name : String) :
20	UriHostNameType;
21	
22	Description
23	Determines whether the specified host name is valid.
24	Return Value: true if the host name is valid; otherwise, false.
25	

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The System.Uri.CheckHostName(System.String) method checks that the host name provided meets the requirements for a valid Internet host name. It does not, however, perform a host-name lookup to verify the existence of the host. The host name to validate.

CheckSchemeName

[C#] public static bool CheckSchemeName(string schemeName);

[C++] public: static bool CheckSchemeName(String* schemeName);

[VB] Public Shared Function CheckSchemeName(ByVal schemeName As String)

As Boolean

[JScript] public static function CheckSchemeName(schemeName : String) :

Boolean;

Description

Determines whether the specified scheme name is valid.

Return Value: true if the scheme name is valid; otherwise, false.

The CheckSchemeName method checks the scheme name for validity according to RFC 2396. The scheme name must begin with a letter, and must contain only letters, digits, and the characters ".", "+", or "-". The scheme name to validate.

CheckSecurity

[C#] protected virtual void CheckSecurity();

[C++] protected: virtual void CheckSecurity();

[VB] Overridable Protected Sub CheckSecurity()

1	[JScript] protected function CheckSecurity();
2	
3	Description
4	Equals
5	
6	[C#] public override bool Equals(object comparand);
7	[C++] public: bool Equals(Object* comparand);
8	[VB] Overrides Public Function Equals(ByVal comparand As Object) As Boolean
9	[JScript] public override function Equals(comparand : Object) : Boolean;
10	
11	Description
12	Compares two System.Uri instances for equality.
13	Return Value: true if the two System.Uri instances contain the same URI;
14	otherwise, false.
15	The System.Uri.Equals(System.Object) method compares two URI
16	instances without regard to any fragments that they might contain. For instance,
17	given the URIs http://www.contoso.com/index.htm#search and
18	http://www.contoso.com/index.htm the System.Uri.Equals(System.Object)
19	method would return true. The System.Uri instance to compare with the current
20	instance.
21	Escape
22	
23	[C#] protected virtual void Escape();
24	[C++] protected: virtual void Escape();
25	[VB] Overridable Protected Sub Escape()

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1	[JScript] protected function Escape();
2	
3	Description
4	EscapeString
5	
6	[C#] protected static string EscapeString(string str);
7	[C++] protected: static String* EscapeString(String* str);
8	[VB] Protected Shared Function EscapeString(ByVal str As String) As String
9	[JScript] protected static function EscapeString(str : String) : String;
10	
11	Description
12	Converts a string to its escaped representation.
13	Return Value: The escaped representation of the string.
14	The System.Uri.EscapeString(System.String) method converts all
15	characters with an ASCII value greater than 127 to hexidecimal representation.
16	The string to transform to its escaped representation.
17	FromHex
18	
19	[C#] public static int FromHex(char digit);
20	[C++] public: static int FromHex(wchar_t digit);
21	[VB] Public Shared Function FromHex(ByVal digit As Char) As Integer
22	[JScript] public static function FromHex(digit : Char) : int;
23	
24	Description
25	

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Returns the decimal value of a hexadecimal digit.
Return Value: A number from 1 - 15 that corresponds to the specified hexadecimal
digit.
The System.Uri.FromHex(System.Char) method converts a character
representing a hexadecimal digit (0-9, a-f, A-F) to its decimal value (0-15). If digit
is not a valid hexadecimal digit, System.ArgumentException is thrown. The
hexadecimal digit (0-9, a-f, A-F) to convert.
GetHashCode
[C#] public override int GetHashCode();
[C++] public: int GetHashCode();
[VB] Overrides Public Function GetHashCode() As Integer
[JScript] public override function GetHashCode(): int;
Description
Returns the hash code for the specified URI.
Return Value: The hash value generated for the URI.
The System.Uri.GetHashCode method generates the URI's hash value
without including any fragment identifiers. For example, the URIs
http://www.contoso.com/index.htm#search and
http://www.contoso.com/index.htm yield the same hash code.
GetLeftPart
[C#] public string GetLeftPart(UriPartial part);

[C++] public: String* GetLeftPart(UriPartial part);

1	[VB] Public Function GetLeftPart(ByVal part As UriPartial) As String
2	[JScript] public function GetLeftPart(part : UriPartial) : String;
3	
4	Description
5	Returns the specified portion of a URI.
6	Return Value: A string containing the specified portion of the URI.
7	The System.Uri.GetLeftPart(System.UriPartial) method returns a string
8	containing the left-most portion of the URI, ending with the portion specified by
9	part. The string returned includes delimiters but does not include any fragments
10	or queries or their delimiters, except in certain cases. One of the
11	System.UriPartial values that specifies the the end of the portion of the URI to
12	return.
13	HexEscape
14	
15	[C#] public static string HexEscape(char character);
16	[C++] public: static String* HexEscape(_wchar_t character);
17	[VB] Public Shared Function HexEscape(ByVal character As Char) As String
18	[JScript] public static function HexEscape(character : Char) : String;
19	
20	Description
21	Converts a specified character into its hexadecimal equivalent.
22	Return Value: The hexadecimal representation of the specified character. The
23	character to convert to hexadecimal representation.
24	HexUnescape
25	

1	
2	[C#] public static char HexUnescape(string pattern, ref int index);
3	[C++] public: staticwchar_t HexUnescape(String* pattern, int* index);
4	[VB] Public Shared Function HexUnescape(ByVal pattern As String, ByRef index
5	As Integer) As Char
6	[JScript] public static function HexUnescape(pattern : String, index : int) : Char;
7	
8	Description
9	Converts a specified hexadecimal representation of a character to the
10	character.
11	Return Value: The character represented by the hexadecimal encoding at position
12	index. If the character at index is not hexadecimal encoded, the character at index
13	is returned. The value of <i>index</i> is incremented to point to the character following
14	the one returned. The hexadecimal representation of a character. The location in
15	pattern where the hexadecimal representation of a character begins.
16	IsBadFileSystemCharacter
17	
18	[C#] protected virtual bool IsBadFileSystemCharacter(char character);
19	[C++] protected: virtual bool IsBadFileSystemCharacter(wchar_t character);
20	[VB] Overridable Protected Function IsBadFileSystemCharacter(ByVal character
21	As Char) As Boolean
22	[JScript] protected function IsBadFileSystemCharacter(character : Char) :
23	Boolean;
24	
25	Description

IsExcludedCharacter

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[C#] protected static bool IsExcludedCharacter(char character);

[C++] protected: static bool IsExcludedCharacter(wchar t character);

[VB] Protected Shared Function IsExcludedCharacter(ByVal character As Char)

As Boolean

[JScript] protected static function IsExcludedCharacter(character : Char) :

Boolean;

Description

IsHexDigit

[C#] public static bool IsHexDigit(char character);

[C++] public: static bool IsHexDigit(wchar t character);

[VB] Public Shared Function IsHexDigit(ByVal character As Char) As Boolean

[JScript] public static function IsHexDigit(character : Char) : Boolean;

Description

Determines whether a specified character is a valid hexadecimal digit.

Return Value: true if the character is a valid hexadecimal digit; otherwise false.

Hexadecimal digits are the digits 0-9 and the letters A-F or a-f. The character to validate.

IsHexEncoding

[C#] public static bool IsHexEncoding(string pattern, int index);

1	[C++] public: static bool IsHexEncoding(String* pattern, int index);
2	[VB] Public Shared Function IsHexEncoding(ByVal pattern As String, ByVal
3	index As Integer) As Boolean
4	[JScript] public static function IsHexEncoding(pattern : String, index : int) :
5	Boolean;
6	
7	Description
8	Determines whether a string is hex encoded.
9	Return Value: true if pattern is hex encoded at the specified location; otherwise,
10	false .
11	The System.Uri.IsHexEncoding(System.String,System.Int32) method
12	checks for hex encoding that follows the pattern "%hexhex" in a string, where
13	"hex" is a digit from 0-9 or or a letter from A-F (case-insensitive). The string to
14	check. The location in <i>pattern</i> to check for hex encoding.
15	IsReservedCharacter
16	
17	[C#] protected virtual bool IsReservedCharacter(char character);
18	[C++] protected: virtual bool IsReservedCharacter(wchar_t character);
19	[VB] Overridable Protected Function IsReservedCharacter(ByVal character As
20	Char) As Boolean
21	[JScript] protected function IsReservedCharacter(character : Char) : Boolean;
22	
23	Description
24	MakeRelative
25	

1	ı
1	
2	[C#] public string MakeRelative(Uri toUri);
3	[C++] public: String* MakeRelative(Uri* toUri);
4	[VB] Public Function MakeRelative(ByVal toUri As Uri) As String
5	[JScript] public function MakeRelative(toUri : Uri) : String;
6	
7	Description
8	Determines the difference between two System.Uri instances.
9	Return Value: If the two URIs are the same except for the path information, then
10	that difference; if the two have additional differences, the absolute URI of toUri
11	The URI to compare to the current URI.
12	Parse
13	
14	[C#] protected virtual void Parse();
15	[C++] protected: virtual void Parse();
16	[VB] Overridable Protected Sub Parse()
17	[JScript] protected function Parse();
18	
19	Description
20	ISerializable.GetObjectData
21	
22	[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,
23	StreamingContext streamingContext);
24	[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,
25	StreamingContext streamingContext);

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1	[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal
2	streamingContext As StreamingContext) Implements ISerializable.GetObjectData
3	[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo,
4	streamingContext : StreamingContext);
5	ToString
6	
7	[C#] public override string ToString();
8	[C++] public: String* ToString();
9	[VB] Overrides Public Function ToString() As String
10	[JScript] public override function ToString(): String;
11	
12	Description
13	Returns the display string for the specified System.Uri instance.
14	Return Value: The string containing the unescaped display name of the
15	System.Uri .
16	Unescape
17	
18	[C#] protected virtual string Unescape(string path);
19	[C++] protected: virtual String* Unescape(String* path);
20	[VB] Overridable Protected Function Unescape(ByVal path As String) As String
21	[JScript] protected function Unescape(path : String) : String;
22	
23	Description
24	UriBuilder class (System)
25	Unescape

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3	Description
4	Provides a custom constructor for uniform resource indentifiers (URIs) and
5	modifies URIs for the System.Uri class.
6	The System.UriBuilder class provides a convenient way to modify the
7	contents of a System.Uri instance without creating a new System.Uri instance for
8	each modification.
9	UriBuilder
10	Example Syntax:
11	Unescape
12	
13	[C#] public UriBuilder();
14	[C++] public: UriBuilder();
15	[VB] Public Sub New()
16	[JScript] public function UriBuilder(); Initializes a new instance of the
17	System.UriBuilder class.
18	
19	Description

Initializes a new instance of the System.UriBuilder class.

The default constructor creates a new instance of the System.UriBuilder class with all properties empty.

UriBuilder

Example Syntax:

Unescape

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[C#] public UriBuilder(string uri);
    [C++] public: UriBuilder(String* uri);
    [VB] Public Sub New(ByVal uri As String)
    [JScript] public function UriBuilder(uri : String);
6
    Description
7
           Initializes a new instance of the System. UriBuilder class with the specified
8
    URI.
9
           This constructor initializes a new instance of the System.UriBuilder class
10
    with the System.UriBuilder.Fragment, System.UriBuilder.Host,
11
    System.UriBuilder.Path, System.UriBuilder.Port, System.UriBuilder.Query
12
    , System.UriBuilder.Scheme , and System.UriBuilder.Uri properties set as
13
    specified in uri . A URI string.
14
           UriBuilder
15
           Example Syntax:
16
           Unescape
17
18
    [C#] public UriBuilder(Uri uri);
19
    [C++] public: UriBuilder(Uri* uri);
20
    [VB] Public Sub New(ByVal uri As Uri)
21
    [JScript] public function UriBuilder(uri: Uri);
22
23
    Description
24
25
```

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25

Initializes a new instance of the **System.UriBuilder** class with the specified **System.Uri** instance.

This constructor initializes a new instance of the **System.UriBuilder** class

with the System.UriBuilder.Fragment, System.UriBuilder.Host,
System.UriBuilder.Path, System.UriBuilder.Port, System.UriBuilder.Query,
System.UriBuilder.Scheme, and System.UriBuilder.Uri properties set as
specified in uri. An instance of the System.Uri class.

UriBuilder

Example Syntax:

Unescape

[C#] public UriBuilder(string schemeName, string hostName);

[C++] public: UriBuilder(String* schemeName, String* hostName);

[VB] Public Sub New(ByVal schemeName As String, ByVal hostName As String)

[JScript] public function UriBuilder(schemeName : String, hostName : String);

Description

Initializes a new instance of the **System.UriBuilder** class with the specified scheme and host.

The **System.UriBuilder** instance is initialized with the **System.UriBuilder.Scheme** property set to *schemeName* and the **System.UriBuilder.Host** property set to *hostName*. An Internet access protocol.

A DNS-style domain name or IP address.

UriBuilder

1	Example Syntax:
2	Unescape
3	
4	[C#] public UriBuilder(string scheme, string host, int portNumber);
5	[C++] public: UriBuilder(String* scheme, String* host, int portNumber);
6	[VB] Public Sub New(ByVal scheme As String, ByVal host As String, ByVal
7	portNumber As Integer)
8	[JScript] public function UriBuilder(scheme : String, host : String, portNumber :
9	int);
10	
11	Description
12	Initializes a new instance of the System.UriBuilder class with the specified
13	scheme, host, and port.
14	The System.UriBuilder instance is initialized with the
15	System.UriBuilder.Scheme property set to schemeName, the
16	System.UriBuilder.Host property set to hostName, and the
17	System.UriBuilder.Port property set to portNumber. The
18	System.UriBuilder.Path property is set to the slash character (/). An Internet
19	access protocol. A DNS-style domain name or IP address. An IP port number for
20	the service.
21	UriBuilder
22	Example Syntax:
23	Unescape
24	
25	[C#] public UriBuilder(string scheme, string host, int port, string pathValue);

1	[C++] public: UriBuilder(String* scheme, String* host, int port, String*
2	pathValue);
3	[VB] Public Sub New(ByVal scheme As String, ByVal host As String, ByVal port
4	As Integer, ByVal pathValue As String)
5	[JScript] public function UriBuilder(scheme : String, host : String, port : int,
6	pathValue : String);
7	
8	Description
9	Initializes a new instance of the System.UriBuilder class with the specified
10	scheme, host, port number, and path.
11	The System.UriBuilder instance is initialized with the
12	System.UriBuilder.Scheme property set to schemeName, the
13	System.UriBuilder.Host property set to hostName, the System.UriBuilder.Port
14	property set to portNumber and the System.UriBuilder.Path property set to
15	pathValue . An Internet access protocol. A DNS-style domain name or IP address.
16	An IP port number for the service. The path to the Internet resource.
17	UriBuilder
18	Example Syntax:
19	Unescape
20	
21	[C#] public UriBuilder(string scheme, string host, int port, string path, string
22	extraValue);
23	[C++] public: UriBuilder(String* scheme, String* host, int port, String* path,
24	String* extraValue);
25	[VB] Public Sub New(ByVal scheme As String, ByVal host As String, ByVal port

1	As Integer, ByVal path As String, ByVal extraValue As String)
2	[JScript] public function UriBuilder(scheme : String, host : String, port : int, path :
3	String, extraValue : String);
4	
5	Description
6	Initializes a new instance of the System.UriBuilder class with the specified
7	scheme, host, port number, path and query string or fragment identifier.
8	The System.UriBuilder instance is initialized with the
9	System.UriBuilder.Scheme property set to schemeName, the
10	System.UriBuilder.Host property set to hostName, the System.UriBuilder.Port
11	property set to portNumber, and the System.UriBuilder.Path property is set to
12	pathValue . If extraValue contains a number sign (#), then
13	System.UriBuilder.Fragment is set to extraValue. If extraValue contains a
14	question mark (?), then System.UriBuilder.Query is set to extraValue. An
15	Internet access protocol. A DNS-style domain name or IP address. An IP port
16	number for the service. The path to the Internet resource. A query string or
17	fragment identifier.
18	Fragment
19	Unescape
20	
21	[C#] public string Fragment {get; set;}
22	[C++] public:property String* get_Fragment();public:property void
23	set_Fragment(String*);
24	[VB] Public Property Fragment As String
25	[JScript] public function get Fragment(): String; public function set

1	Fragment(String);
2	
3	Description
4	Gets or sets the fragment portion of the URI.
5	The System.UriBuilder.Fragment property contains any text following a
6	fragment marker (#) in the URI, including the marker itself. When setting the
7	System.UriBuilder.Fragment property, the fragment marker is added to its value.
8	Host
9	Unescape
10	
11	[C#] public string Host {get; set;}
12	[C++] public:property String* get_Host();public:property void
13	set_Host(String*);
14	[VB] Public Property Host As String
15	[JScript] public function get Host(): String; public function set Host(String);
16	
17	Description
18	Gets or sets the Domain Name System (DNS) host name or IP address of a
19	server.
20	The System.UriBuilder.Host property contains the fully qualified DNS
21	host name or IP address (in dotted-quad notation) of the server.
22	Password
23	Unescape
24	
25	[C#] public string Password {get; set;}

1	[C++] public:property String* get_Password();public:property void
2	set_Password(String*);
3	[VB] Public Property Password As String
4	[JScript] public function get Password(): String; public function set
5	Password(String);
6	
7	Description
8	Gets or sets the password associated with the user accessing the URI.
9	Path
10	Unescape
11	
12	[C#] public string Path {get; set;}
13	[C++] public:property String* get_Path();public:property void
14	set_Path(String*);
15	[VB] Public Property Path As String
16	[JScript] public function get Path(): String; public function set Path(String);
17	
18	Description
19	Gets or sets the path to the resource referenced by the URI.
20	The System.UriBuilder.Path property contains the path information that
21	the server uses to resolve requests for information. Typically this is the path to the
22	desired information on the server's file system, although it also can indicate the
23	application or script that the server must run to provide the information.
24	Port
25	Unescape

1	
2	[C#] public int Port {get; set;}
3	[C++] public:property int get_Port();public:property void set_Port(int);
4	[VB] Public Property Port As Integer
5	[JScript] public function get Port(): int;public function set Port(int);
6	
7	Description
8	Gets or sets the port number of the URI.
9	The port number defines the protocol port for contacting the server
10	referenced in the URI. If a port is not specified as part of the URI, the
11	System.Uri.Port property returns the value -1 to indicate that the server uses the
12	default value for the protocol.
13	Query
14	Unescape
15	
16	[C#] public string Query {get; set;}
17	[C++] public:property String* get_Query();public:property void
18	set_Query(String*);
19	[VB] Public Property Query As String
20	[JScript] public function get Query(): String; public function set Query(String);
21	
22	Description
23	Gets or sets any query information included in the URI.
24	The System.Uri.Query property contains any query information included
25	in the URL Query information is separated from the path information by a

```
question mark (?) and continues to the end of the URI. The query information
    returned includes the leading question mark.
2
           Scheme
 3
           Unescape
 5
    [C#] public string Scheme {get; set;}
 6
    [C++] public: property String* get Scheme();public: property void
7
    set Scheme(String*);
8
    [VB] Public Property Scheme As String
9
    [JScript] public function get Scheme(): String; public function set Scheme(String);
10
11
    Description
12
           Gets or sets the scheme name of the URI.
13
           The following table lists the valid scheme names for the
14
    System.Uri.Scheme property.
15
           Uri
16
           Unescape
17
18
    [C#] public Uri Uri {get;}
19
    [C++] public: _property Uri* get _Uri();
20
    [VB] Public ReadOnly Property Uri As Uri
21
    [JScript] public function get Uri(): Uri;
22
23
    Description
24
25
```

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1	Gets the System.Uri instance constructed by the specified
2	System.UriBuilder instance.
3	The System.UriBuilder.Uri property contains the System.Uri created by
4	the System.UriBuilder. Any changes made to the System.UriBuilder properties
5	are reflected in the System.UriBuilder.Uri property.
6	UserName
7	Unescape
8	
9	[C#] public string UserName {get; set;}
10	[C++] public:property String* get_UserName();public:property void
11	set_UserName(String*);
12	[VB] Public Property UserName As String
13	[JScript] public function get UserName(): String; public function set
14	UserName(String);
15	
16	Description
17	The user name associated with the user accessing the URI.
18	Equals
19	
20	[C#] public override bool Equals(object rparam);
21	[C++] public: bool Equals(Object* rparam);
22	[VB] Overrides Public Function Equals(ByVal rparam As Object) As Boolean
23	[JScript] public override function Equals(rparam : Object) : Boolean;
24	
_ []	Description

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Compares an existing **System.Uri** instance with the contents of the **System.UriBuilder** for equality.

Return Value: true if the specified System.Uri is equal to the System.Uri constructed by this System.UriBuilder instance; otherwise, false.

The System.UriBuilder.Equals(System.Object) method compares a specified System.Uri instance with the System.Uri instance built by the System.UriBuilder instance. If the two are the same, the System.UriBuilder.Equals(System.Object) method returns true. The System.Uri instance to compare with the current instance.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

[JScript] public override function GetHashCode(): int;

Description

Returns the hash code for the URI.

Return Value: The hash code generated for the URI.

The hash code is generated without including any fragment included. The URIs http://www.contoso.com/index.htm#search and

http://www.contoso.com/index.htm generate the same hash code.

ToString

[C#] public override string ToString();

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1	[C++] public: String* ToString();
2	[VB] Overrides Public Function ToString() As String
3	[JScript] public override function ToString(): String;
4	
5	Description
6	Returns the display string for the specified System.UriBuilder instance.
7	Return Value: The string containing the unescaped display name of the
8	System.UriBuilder .
9	UriFormatException class (System)
10	ToString
11	
12	
13	Description
14	The exception that is thrown when an invalid Uniform Resource Identifier
15	(URI) is detected.
16	The System.UriFormatException is thrown by the Uri class constructor if
17	the supplied URI could not correctly parsed. The format for a valid URI is defined
18	in RFC 2396.
19	UriFormatException
20	Example Syntax:
21	ToString
22	
23	[C#] public UriFormatException();
24	[C++] public: UriFormatException();
25	[VB] Public Sub New()

1	[JScript] public function UriFormatException(); Initializes a new instance of the
2	System.UriFormatException class.
3	
4	Description
5	Initializes a new instance of the System.UriFormatException class.
6	The default constructor initializes a new instance of the
7	System.UriFormatException class with all fields set to null.
8	UriFormatException
9	Example Syntax:
10	ToString
11	
12	[C#] public UriFormatException(string textString);
13	[C++] public: UriFormatException(String* textString);
14	[VB] Public Sub New(ByVal textString As String)
15	[JScript] public function UriFormatException(textString : String);
16	
17	Description
18	Initializes a new instance of the System.UriFormatException class with
19	the specified message.
20	The UriFormatException constructor initializes the
21	System.UriFormatException instance with the System.Exception.Message
22	property set to the value of textString. The error message string.
23	UriFormatException
24	Example Syntax:
25	ToString

1	
2	[C#] protected UriFormatException(SerializationInfo serializationInfo,
3	StreamingContext streamingContext);
4	[C++] protected: UriFormatException(SerializationInfo* serializationInfo,
5	StreamingContext streamingContext);
6	[VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal
7	streamingContext As StreamingContext)
8	[JScript] protected function UriFormatException(serializationInfo:
9	SerializationInfo, streamingContext : StreamingContext);
10	HelpLink
11	HResult
12	InnerException
13	Message
14	Source
15	StackTrace
16	TargetSite
17	ISerializable.GetObjectData
18	
19	[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,
20	StreamingContext streamingContext);
21	[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,
22	StreamingContext streamingContext);
23	[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal
24	streamingContext As StreamingContext) Implements ISerializable.GetObjectData

[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo,
streamingContext : StreamingContext);
UriHostNameType enumeration (System)
ToString
Description
Defines host name types for the
System.Uri.CheckHostName(System.String) method.
The System.UriHostNameType enumeration defines the values that the
System.Uri.CheckHostName(System.String) method can return.
ToString
[C#] public const UriHostNameType Basic;
[C++] public: const UriHostNameType Basic;
[VB] Public Const Basic As UriHostNameType
[JScript] public var Basic : UriHostNameType;
Description
The host is set, but the type cannot be determined.
ToString
[C#] public const UriHostNameType Dns;
[C++] public: const UriHostNameType Dns;
[VB] Public Const Dns As UriHostNameType

1	[JScript] public var Dns : UriHostNameType;
2	
3	Description
4	The host name is a domain name system (DNS) style host name.
5	ToString
6	
7	[C#] public const UriHostNameType IPv4;
8	[C++] public: const UriHostNameType IPv4;
9	[VB] Public Const IPv4 As UriHostNameType
10	[JScript] public var IPv4 : UriHostNameType;
11	
12	Description
13	The host name is an Internet Protocol (IP) version 4 host address
14	ToString
15	
16	[C#] public const UriHostNameType IPv6;
17	[C++] public: const UriHostNameType IPv6;
18	[VB] Public Const IPv6 As UriHostNameType
19	[JScript] public var IPv6 : UriHostNameType;
20	
21	Description
22	The host name is an Internet Protocol (IP) version 6 host address
23	ToString
24	
25	[C#] public const UriHostNameType Unknown;

1	[C++] public: const UriHostNameType Unknown;
2	[VB] Public Const Unknown As UriHostNameType
3	[JScript] public var Unknown : UriHostNameType;
4	
5	Description
6	The type of the host name is not supplied.
7	UriPartial enumeration (System)
8	ToString
9	
10	
11	Description
12	Defines the parts of a URI for the
13	System.Uri.GetLeftPart(System.UriPartial) method.
14	The System.UriPartial enumeration defines the values that can be passed
15	to the System.Uri.GetLeftPart(System.UriPartial) method.
16	ToString
17	
18	[C#] public const UriPartial Authority;
19	[C++] public: const UriPartial Authority;
20	[VB] Public Const Authority As UriPartial
21	[JScript] public var Authority : UriPartial;
22	
23	Description
24	The scheme and authority segment of the URI.
25	ToString

[C#] public const UriPartial Path;

[C++] public: const UriPartial Path;

[VB] Public Const Path As UriPartial

[JScript] public var Path: UriPartial;

Description

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SYSTEM. COLLECTIONS NAMESPACE

The System. Collections namespace contains classes and interfaces for inmemory data storage and manipulation. There are three main things this namespace is providing. The first is concrete implementations of commonly used collection classes such as a growable array (ArrayList), Hashtable, Stack, Queue, etc. Application developers use these classes as a convenient way to store and The second set of types in the System. Collections retrieve in-memory data. namespace is a set of interfaces to define a formal contract between developers creating new collections and developers consuming collections. For example the IEnumerable interface defines the contract for collections that can offer sequential access via an enumerator. The ASP.NET application model supports data binding controls to data sources that honor the IEnumerable contract. That means that any new collection implementation will automatically be databindable in the ASP.NET The third set of types in the System. Collections namespace supports creating strongly typed collections. The CollectionBase class offers data storage

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that is convenient for developers creating their own, strongly typed collections. This is common for library developers that frequently want to do something such as expose a ControlsCollection that has its Add and Remove method typed to take a Control. By implementing the ControlsCollection to derive from CollectionBase the developer is saved much of the tedious work of rewriting the collection from scratch.

The following example shows adding data to a data collection and outputting the data from collection.

```
static void Main(string[] args)
      Console.WriteLine("From an ArrayList");
      ArrayList 1 = new ArrayList ();
      1.Add ("Damien");
      1.Add ("Mark");
      1.Add ("Brad");
      PrintItems (1);
      Console.WriteLine("From a stack");
      Stack s = new Stack();
      s.Push(4.5);
      s.Push(12.3);
      s.Push (66.2);
      PrintItems (s);
      Console.WriteLine("From a array");
      PrintItems (new string[] {"monkey", "cat", "dog"});
}
static void PrintItems (ICollection c)
      int ct=0;
      foreach (object o in c)
            Console.WriteLine ("\t{1}:{0}", o,ct++);
```

The following is a more detailed description of the System. Collections namespace, identifying various classes, interfaces, enumerations, and so forth

contained in the System.Collections namespace (as well as the System.Collections.Specialized namespace included therein).

System.Collections

The namespace contains interfaces and classes that define various collections of objects, such as lists, queues, bit arrays, hashtables and dictionaries.

Description

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The **System.Collections** namespace contains interfaces and classes that define various collections of objects, such as lists, queues, bit arrays, hashtables and dictionaries.

ArrayList class (System.Collections)

Description

Implements the **System.Collections.IList** interface using an array whose size is dynamically increased as required.

The capacity of an **System.Collections.ArrayList** is the number of elements the list can hold. As elements are added to an

System.Collections.ArrayList, the capacity is automatically increased as required through reallocation. The capacity can be decreased by calling

System.Collections.ArrayList.TrimToSize or by setting the

System.Collections.ArrayList.Capacity property explicitly.

Constructors:

ArrayList

Example Syntax:

1	
2	[C#] public ArrayList();
3	[C++] public: ArrayList();
4	[VB] Public Sub New()
5	[JScript] public function ArrayList(); Initializes a new instance of the
6	System.Collections.ArrayList class.
7	
8	Description
9	Initializes a new instance of the System.Collections.ArrayList class that is
10	empty and has the default initial capacity.
11	The initial capacity is the starting capacity of the new
12	System.Collections.ArrayList. The default initial capacity for an
13	System.Collections.ArrayList is 16.
14	ArrayList
15	Example Syntax:
16	
17	[C#] public ArrayList(ICollection c);
18	[C++] public: ArrayList(ICollection* c);
19	[VB] Public Sub New(ByVal c As ICollection)
20	[JScript] public function ArrayList(c : ICollection);
21	
22	Description
23	Initializes a new instance of the System.Collections.ArrayList class that
24	contains elements copied from the specified collection and that has the same initial
25	capacity as the number of elements copied.

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The initial capacity is the starting capacity of the new System.Collections.ArrayList. If the number of elements added to the list reaches the current capacity, the capacity is automatically doubled. The **System.Collections.ICollection** whose elements are copied to the new list. ArrayList Example Syntax: [C#] public ArrayList(int capacity); [C++] public: ArrayList(int capacity); [VB] Public Sub New(ByVal capacity As Integer) [JScript] public function ArrayList(capacity: int); Description Initializes a new instance of the System. Collections. ArrayList class that is empty and has the specified initial capacity. The initial capacity is the starting capacity of the new System.Collections.ArrayList. The default initial capacity for an System.Collections.ArrayList is 16. If the specified initial capacity is zero, the default initial capacity is used. The number of elements that the new list is initially capable of storing. Properties: Capacity

[C++] public: __property virtual int get_Capacity();public: __property virtual void

[C#] public virtual int Capacity {get; set;}

1	set_Capacity(int);
2	[VB] Overridable Public Property Capacity As Integer
3	[JScript] public function get Capacity(): int;public function set Capacity(int);
4	
5	Description
6	Gets or sets the number of elements that the System.Collections.ArrayList
7	can contain.
8	System.Collections.ArrayList.Capacity is the number of elements that the
9	System.Collections.ArrayList is capable of storing.
10	Count
11	
12	[C#] public virtual int Count {get;}
13	[C++] public:property virtual int get_Count();
14	[VB] Overridable Public ReadOnly Property Count As Integer
15	[JScript] public function get Count(): int;
16	
17	Description
18	Gets the number of elements actually contained in the
19	System.Collections.ArrayList .
20	System.Collections.ArrayList.Count is the number of elements that are
21	actually in the System.Collections.ArrayList.
22	IsFixedSize
23	
24	[C#] public virtual bool IsFixedSize {get;}
25	[C++] public:property virtual bool get_IsFixedSize();

1	[VB] Overridable Public ReadOnly Property IsFixedSize As Boolean
2	[JScript] public function get IsFixedSize() : Boolean;
3	
4	Description
5	Gets a value indicating whether the System.Collections.ArrayList has a
6	fixed size.
7	A collection with a fixed size does not allow the addition or removal of
8	elements, but it allows the modification of existing elements.
9	IsReadOnly
10	
11	[C#] public virtual bool IsReadOnly {get;}
12	[C++] public:property virtual bool get_IsReadOnly();
13	[VB] Overridable Public ReadOnly Property IsReadOnly As Boolean
14	[JScript] public function get IsReadOnly(): Boolean;
15	
16	Description
17	Gets a value indicating whether the System.Collections.ArrayList is read-
18	only.
19	IsSynchronized
20	
21	[C#] public virtual bool IsSynchronized {get;}
22	[C++] public:property virtual bool get_IsSynchronized();
23	[VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
24	[JScript] public function get IsSynchronized(): Boolean;
25	

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Gets a value indicating whether access to the

System.Collections.ArrayList is synchronized (thread-safe).

To guarantee the thread safety of the System. Collections. Array List, all operations must be done through the wrapper returned by the

System.Collections.ArrayList.Synchronized(System.Collections.IList) method.

Item

[C#] public virtual object this[int index] {get; set;}

[C++] public: property virtual Object* get_Item(int index);public: property virtual void set Item(int index, Object*);

[VB] Overridable Public Default Property Item(ByVal index As Integer) As

Object

[JScript] returnValue = ArrayListObject.Item(index); ArrayListObject.Item(index)

= returnValue;

Description

Gets or sets the element at the specified index.

This property provides the ability to access a specific element in the collection by using the following syntax: myCollection[index]. The zero-based index of the element to get or set.

SyncRoot

[C#] public virtual object SyncRoot {get;}

1	[C++] public:property virtual Object* get_SyncRoot();
2	[VB] Overridable Public ReadOnly Property SyncRoot As Object
3	[JScript] public function get SyncRoot() : Object;
4	
5	Description
6	Gets an object that can be used to synchronize access to the
7	System.Collections.ArrayList.
8	To create a synchronized version of the System.Collections.ArrayList,
9	use the System.Collections.ArrayList.Synchronized(System.Collections.IList)
10	method. However, derived classes can provide their own synchronized version of
11	the System.Collections.ArrayList using the
12	System.Collections.ArrayList.SyncRoot property. The synchronizing code must
13	perform operations on the System.Collections.ArrayList.SyncRoot of the
14	System.Collections.ArrayList, not directly on the
15	System.Collections.ArrayList. This ensures proper operation of collections that
16	are derived from other objects. Specifically, it maintains proper synchronization
17	with other threads that might be simultaneously modifying the
18	System.Collections.ArrayList object.
19	Methods:
20	Adapter
21	
22	[C#] public static ArrayList Adapter(IList list);
23	[C++] public: static ArrayList* Adapter(IList* list);
24	[VB] Public Shared Function Adapter(ByVal list As IList) As ArrayList
25	[JScript] public static function Adapter(list : IList) : ArrayList;

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Creates an System.Collections.ArrayList wrapper for a specific System.Collections.IList.

Return Value: The System.Collections.ArrayList wrapper around the System.Collections.IList.

System.Collections.ArrayList.Adapter(System.Collections.IList) does not copy the contents of System.Collections.IList . Instead, it only creates an System.Collections.ArrayList wrapper around System.Collections.IList; therefore, changes to the System. Collections. IList also affect the System.Collections.ArrayList. The System.Collections.IList to wrap.

Add

[C#] public virtual int Add(object value);

[C++] public: virtual int Add(Object* value);

[VB] Overridable Public Function Add(ByVal value As Object) As Integer

[JScript] public function Add(value : Object) : int;

Description

Adds an object to the end of the System.Collections.ArrayList.

Return Value: The System. Collections. Array List index at which the value has

been added.

If System.Collections.ArrayList.Count already equals System.Collections.ArrayList.Capacity, the capacity of the list is doubled by automatically reallocating the internal array and copying the existing elements to

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the new array before the new element is added. The System. Object to be added to the end of the System.Collections.ArrayList.

AddRange

[C#] public virtual void AddRange(ICollection c);

[C++] public: virtual void AddRange(ICollection* c);

[VB] Overridable Public Sub AddRange(ByVal c As ICollection)

[JScript] public function AddRange(c: ICollection);

Description

Adds the elements of an System. Collections. I Collection to the end of the System.Collections.ArrayList.

If the new System.Collections.ArrayList.Count (the current System.Collections.ArrayList.Count plus the size of the collection) will be greater than System.Collections.ArrayList.Capacity, the capacity of the list is either doubled or increased to the new System. Collections. Array List. Count, whichever is greater. The internal array is automatically reallocated to accommodate the new elements and the existing elements are copied to the new array before the new elements are added. The System.Collections.ICollection whose elements should be added to the end of the System.Collections.ArrayList.

BinarySearch

[C#] public virtual int BinarySearch(object value);

[C++] public: virtual int BinarySearch(Object* value);

[VB] Overridable Public Function BinarySearch(ByVal value As Object) As

1340

Integer

[JScript] public function BinarySearch(value : Object) : int;

Description

Searches the entire sorted **System.Collections.ArrayList** for an element using the default comparer and returns the zero-based index of the element.

Return Value: The zero-based index of the value in the sorted

System.Collections.ArrayList, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the next element.

The *value* parameter and each element of the System.Collections.ArrayList must implement the System.IComparable interface, which is used for comparisons. If the System.Collections.ArrayList is not already sorted according to the System.IComparable implementation, the result might be incorrect. The System.Object to locate.

BinarySearch

[C#] public virtual int BinarySearch(object value, IComparer comparer);
[C++] public: virtual int BinarySearch(Object* value, IComparer* comparer);
[VB] Overridable Public Function BinarySearch(ByVal value As Object, ByVal comparer As IComparer) As Integer
[JScript] public function BinarySearch(value : Object, comparer : IComparer) : int;

Description

Searches the entire sorted System.Collections.ArrayList for an element using the specified comparer and returns the zero-based index of the element.

Return Value: The zero-based index of the value in the sorted

System.Collections.ArrayList, if value is found; otherwise, a negative number, which is the bitwise complement of the index of the next element.

The comparer customizes how the elements are compared. For example, you can use a **System.Collections.CaseInsensitiveComparer** instance as the comparer to perform case-insensitive string searches. The **System.Object** to locate. The **System.Collections.IComparer** implementation to use when comparing elements.

BinarySearch

[C#] public virtual int BinarySearch(int index, int count, object value, IComparer comparer);

[C++] public: virtual int BinarySearch(int index, int count, Object* value, IComparer* comparer);

[VB] Overridable Public Function BinarySearch(ByVal index As Integer, ByVal count As Integer, ByVal value As Object, ByVal comparer As IComparer) As Integer

[JScript] public function BinarySearch(index : int, count : int, value : Object, comparer : IComparer) : int; Uses a binary search algorithm to locate a specific element in the sorted **System.Collections.ArrayList** or a portion of it.

Description

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Searches a section of the sorted System.Collections.ArrayList for an
element using the specified comparer and returns the zero-based index of the
element.
Return Value: The zero-based index of the value in the sorted
System.Collections.ArrayList, if value is found; otherwise, a negative number,

which is the bitwise complement of the index of the next element.

The comparer customizes how the elements are compared. For example, you can use a **System.Collections.CaseInsensitiveComparer** instance as the comparer to perform case-insensitive string searches. The zero-based starting index of the range to search. The length of the range to search. The **System.Object** to locate. The **System.Collections.IComparer** implementation to

use when comparing elements.

Clear

[C#] public virtual void Clear();

[C++] public: virtual void Clear();

[VB] Overridable Public Sub Clear()

[JScript] public function Clear();

Description

Removes all elements from the System.Collections.ArrayList.

System.Collections.ArrayList.Count is set to zero.

Clone

[C#] public virtual object Clone();

1	[C++] public: virtual Object* Clone();
2	[VB] Overridable Public Function Clone() As Object
3	[JScript] public function Clone(): Object;
4	
5	Description
6	Creates a shallow copy of the System.Collections.ArrayList.
7	Return Value: A shallow copy of the System.Collections.ArrayList.
8	A shallow copy of a collection is a new collection containing references to
9	the same elements as the original collection. The elements themselves or anything
10	referenced by the elements are not copied. In contrast, a deep copy of a collection
11	copies the elements and everything directly or indirectly referenced by the
12	elements.
13	Contains
14	
15	[C#] public virtual bool Contains(object item);
16	[C++] public: virtual bool Contains(Object* item);
17	[VB] Overridable Public Function Contains(ByVal item As Object) As Boolean
18	[JScript] public function Contains(item : Object) : Boolean;
19	
20	Description
21	Determines whether an element is in the System.Collections.ArrayList.
22	Return Value: true if item is found in the System.Collections.ArrayList;
23	otherwise, false.
24	This method performs a linear search; therefore, the average execution time
25	is proportional to System.Collections.ArrayList.Count . That is, this method is

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an O(n) operation, where n is System. Collections. Array List. Count. The System. Object to locate in the System. Collections. Array List. The element to locate can be null. CopyTo [C#] public virtual void CopyTo(Array array); [C++] public: virtual void CopyTo(Array* array); [VB] Overridable Public Sub CopyTo(ByVal array As Array) [JScript] public function CopyTo(array: Array); Copies the System.Collections.ArrayList or a portion of it to a one-dimensional array. Description Copies the entire System.Collections.ArrayList to a compatible onedimensional System.Array, starting at the beginning of the target array. The specified array must be of a compatible type. The one-dimensional System. Array that is the destination of the elements copied from System.Collections.ArrayList. The System.Array must have zero-based indexing. CopyTo [C#] public virtual void CopyTo(Array array, int arrayIndex); [C++] public: virtual void CopyTo(Array* array, int arrayIndex); [VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal arrayIndex As Integer)

[JScript] public function CopyTo(array: Array, arrayIndex: int);

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Copies the entire **System.Collections.ArrayList** to a compatible onedimensional **System.Array**, starting at the specified index of the target array.

The specified array must be of a compatible type. The one-dimensional System.Array that is the destination of the elements copied from System.Collections.ArrayList. The System.Array must have zero-based indexing. The zero-based index in array at which copying begins.

CopyTo

[C#] public virtual void CopyTo(int index, Array array, int arrayIndex, int count); [C++] public: virtual void CopyTo(int index, Array* array, int arrayIndex, int count);

[VB] Overridable Public Sub CopyTo(ByVal index As Integer, ByVal array As Array, ByVal arrayIndex As Integer, ByVal count As Integer)

[JScript] public function CopyTo(index : int, array : Array, arrayIndex : int, count : int);

Description

Copies a range of elements from the **System.Collections.ArrayList** to a compatible one-dimensional **System.Array**, starting at the specified index of the target array.

The specified array must be of a compatible type. The zero-based index in the source **System.Collections.ArrayList** at which copying begins. The one-dimensional **System.Array** that is the destination of the elements copied from

System.Collections.ArrayList. The System.Array must have zero-based 1 indexing. The zero-based index in array at which copying begins. The number of 2 elements to copy. 3 **FixedSize** 5 6 7 8 9 10 Description 11 12 13 14 15 16 **FixedSize** 17 18 [C#] public static IList FixedSize(IList list); 19 [C++] public: static IList* FixedSize(IList* list); 20 21 22 23

[C#] public static ArrayList FixedSize(ArrayList list); [C++] public: static ArrayList* FixedSize(ArrayList* list); [VB] Public Shared Function FixedSize(ByVal list As ArrayList) As ArrayList [JScript] public static function FixedSize(list: ArrayList): ArrayList; Returns an System.Collections.ArrayList wrapper with a fixed size. Return Value: An System.Collections.ArrayList wrapper with a fixed size. This wrapper can be used to prevent additions to and deletions from the original System.Collections.ArrayList. The elements can still be modified or replaced. The System.Collections.ArrayList to wrap. [VB] Public Shared Function FixedSize(ByVal list As IList) As IList [JScript] public static function FixedSize(list: IList): IList; Returns a list wrapper with a fixed size, where elements are allowed to be modified, but not added or removed.

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Description

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Returns an System.Collections.IList wrapper with a fixed size.

Return Value: An System.Collections.IList wrapper with a fixed size.

This wrapper can be used to prevent additions to and deletions from the original System.Collections.IList. The elements can still be modified or replaced. The System.Collections.IList to wrap.

GetEnumerator

[C#] public virtual IEnumerator GetEnumerator();

[C++] public: virtual IEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator; Returns an enumerator that can iterate through the System.Collections.ArrayList.

Description

Returns an enumerator for the entire System.Collections.ArrayList.

Return Value: An System.Collections.IEnumerator for the entire

System.Collections.ArrayList.

Enumerators are intended to be used only to read data in the collection.

Enumerators cannot be used to modify the underlying collection.

GetEnumerator

[C#] public virtual IEnumerator GetEnumerator(int index, int count);

[C++] public: virtual IEnumerator* GetEnumerator(int index, int count);

1	[VB] Overridable Public Function GetEnumerator(ByVal index As Integer, ByVal
2	count As Integer) As IEnumerator
3	[JScript] public function GetEnumerator(index : int, count : int) : IEnumerator;
4	
5	Description
6	Returns an enumerator for a section of the System.Collections.ArrayList.
7	Return Value: An System.Collections.IEnumerator for the specified section of
8	the System.Collections.ArrayList.
9	Enumerators are intended to be used only to read data in the collection.
10	Enumerators cannot be used to modify the underlying collection. The zero-based
11	starting index of the System.Collections.ArrayList section that the enumerator
12	should refer to. The number of elements in the System.Collections.ArrayList
13	section that the enumerator should refer to.
14	GetRange
15	
16	[C#] public virtual ArrayList GetRange(int index, int count);
17	[C++] public: virtual ArrayList* GetRange(int index, int count);
18	[VB] Overridable Public Function GetRange(ByVal index As Integer, ByVal
19	count As Integer) As ArrayList
20	[JScript] public function GetRange(index : int, count : int) : ArrayList;
21	
22	Description
23	Returns an System.Collections.ArrayList which represents a subset of the

elements in the source System.Collections.ArrayList.

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Return Value: An System.Collections.ArrayList which represents a subset of the elements in the source System.Collections.ArrayList.

This method does not create copies of the elements. The new

System.Collections.ArrayList is only a view window into the source

System.Collections.ArrayList . However, all subsequent changes to the source

System.Collections.ArrayList must be done through this view window

System.Collections.ArrayList . If changes are made directly to the source

System.Collections.ArrayList , the view window System.Collections.ArrayList is invalidated and any operations on it will return an

System.InvalidOperationException . The zero-based

System.Collections.ArrayList index at which the range starts. The number of

IndexOf

elements in the range.

[C#] public virtual int IndexOf(object value);

[C++] public: virtual int IndexOf(Object* value);

[VB] Overridable Public Function IndexOf(ByVal value As Object) As Integer [JScript] public function IndexOf(value: Object): int; Returns the zero-based index of the first occurrence of a value in the **System.Collections.ArrayList** or in a portion of it.

Description

Searches for the specified **System.Object** and returns the zero-based index of the first occurrence within the entire **System.Collections.ArrayList**.

Return Value: The zero-based index of the first occurrence of value within the entire the System.Collections.ArrayList, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched forward starting at the first element and ending at the last element. The **System.Object** to locate in the **System.Collections.ArrayList**.

IndexOf

[C#] public virtual int IndexOf(object value, int startIndex);

[C++] public: virtual int IndexOf(Object* value, int startIndex);

[VB] Overridable Public Function IndexOf(ByVal value As Object, ByVal startIndex As Integer) As Integer

[JScript] public function IndexOf(value : Object, startIndex : int) : int;

Description

Searches for the specified **System.Object** and returns the zero-based index of the first occurrence within the section of the **System.Collections.ArrayList** that extends from the specified index to the last element.

Return Value: The zero-based index of the first occurrence of value within the section of the **System.Collections.ArrayList** that extends from startIndex to the last element, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched forward starting at startIndex and ending at the last element. The **System.Object** to locate in the **System.Collections.ArrayList**. The zero-based starting index of the search.

IndexOf

[C#] public virtual int IndexOf(object value, int startIndex, int count);
[C++] public: virtual int IndexOf(Object* value, int startIndex, int count);
[VB] Overridable Public Function IndexOf(ByVal value As Object, ByVal
startIndex As Integer, ByVal count As Integer) As Integer
[JScript] public function IndexOf(value : Object, startIndex : int, count : int) : int;
Description

Searches for the specified **System.Object** and returns the zero-based index of the first occurrence within the section of the **System.Collections.ArrayList** that starts at the specified index and contains the specified number of elements. *Return Value:* The zero-based index of the first occurrence of *value* within the section of the **System.Collections.ArrayList** that starts at *startIndex* and contains *count* number of elements, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched forward starting at startIndex and ending at startIndex + count - 1. The **System.Object** to locate in the **System.Collections.ArrayList**. The zero-based starting index of the search. The number of elements in the section to search.

Insert

[C#] public virtual void Insert(int index, object value);
[C++] public: virtual void Insert(int index, Object* value);
[VB] Overridable Public Sub Insert(ByVal index As Integer, ByVal value As Object)
[JScript] public function Insert(index : int, value : Object);

Description

Inserts an element into the **System.Collections.ArrayList** at the specified index.

If System.Collections.ArrayList.Count already equals

System.Collections.ArrayList.Capacity, the capacity of the list is doubled by automatically reallocating the internal array before the new element is inserted. The zero-based index at which *value* should be inserted. The System.Object to insert.

InsertRange

[C#] public virtual void InsertRange(int index, ICollection c);

[C++] public: virtual void InsertRange(int index, ICollection* c);

[VB] Overridable Public Sub InsertRange(ByVal index As Integer, ByVal c As ICollection)

[JScript] public function InsertRange(index : int, c : ICollection);

Description

Inserts the elements of a collection into the **System.Collections.ArrayList** at the specified index.

If the new System.Collections.ArrayList.Count (the current System.Collections.ArrayList.Count plus the size of the collection) is greater than System.Collections.ArrayList.Capacity, the capacity of the list is either doubled or increased to the new count, whichever is greater. The internal array is automatically reallocated to accommodate the new elements. The zero-based index

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at which the new elements should be inserted. The

System.Collections.ICollection whose elements should be inserted into the System.Collections.ArrayList.

LastIndexOf

[C#] public virtual int LastIndexOf(object value);

[C++] public: virtual int LastIndexOf(Object* value);

[VB] Overridable Public Function LastIndexOf(ByVal value As Object) As Integer

[JScript] public function LastIndexOf(value : Object) : int; Returns the zero-based index of the last occurrence of a value in the **System.Collections.ArrayList** or in a portion of it.

Description

Searches for the specified **System.Object** and returns the zero-based index of the last occurrence within the entire **System.Collections.ArrayList**.

Return Value: The zero-based index of the last occurrence of value within the entire the System.Collections.ArrayList, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched backward starting at the last element and ending at the first element. The **System.Object** to locate in the **System.Collections.ArrayList**.

LastIndexOf

[C#] public virtual int LastIndexOf(object value, int startIndex);

[C++] public: virtual int LastIndexOf(Object* value, int startIndex);

[VB] Overridable Public Function LastIndexOf(ByVal value As Object, ByVal
startIndex As Integer) As Integer
[JScript] public function LastIndexOf(value : Object, startIndex : int) : int;
Description
Searches for the specified System.Object and returns the zero-based index
of the last occurrence within the section of the System.Collections.ArrayList that
extends from the first element to the specified index.
Return Value: The zero-based index of the last occurrence of value within the
section of the System. Collections. ArrayList that extends from the first element to
startIndex, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched backward starting at startIndex and ending at the first element. The **System.Object** to locate in the **System.Collections.ArrayList**. The zero-based starting index of the backward search.

LastIndexOf

[C#] public virtual int LastIndexOf(object value, int startIndex, int count);
[C++] public: virtual int LastIndexOf(Object* value, int startIndex, int count);
[VB] Overridable Public Function LastIndexOf(ByVal value As Object, ByVal
startIndex As Integer, ByVal count As Integer) As Integer
[JScript] public function LastIndexOf(value : Object, startIndex : int, count : int) :
int;

Description

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Searches for the specified **System.Object** and returns the zero-based index of the last occurrence within the section of the **System.Collections.ArrayList** that contains the specified number of elements and ends at the specified index.

Return Value: The zero-based index of the last occurrence of value within the section of the **System.Collections.ArrayList** that contains *count* number of elements and ends at *startIndex*, if found; otherwise, -1.

The **System.Collections.ArrayList** is searched backward starting at startIndex and ending at startIndex - count + 1. The **System.Object** to locate in the **System.Collections.ArrayList**. The zero-based starting index of the backward search. The number of elements in the section to search.

ReadOnly

[C#] public static ArrayList ReadOnly(ArrayList list);

[C++] public: static ArrayList* ReadOnly(ArrayList* list);

[VB] Public Shared Function ReadOnly(ByVal list As ArrayList) As ArrayList

[JScript] public static function ReadOnly(list: ArrayList): ArrayList;

Description

Returns a read-only System.Collections.ArrayList wrapper.

 $Return\ Value:$ A read-only System.Collections.ArrayList wrapper around list.

To prevent any modifications to *list*, expose *list* only through this wrapper.

The System.Collections.ArrayList to wrap.

ReadOnly

[C#] public static IList ReadOnly(IList list);

1	[C++] public: static IList* ReadOnly(IList* list);
2	[VB] Public Shared Function ReadOnly(ByVal list As IList) As IList
3	[JScript] public static function ReadOnly(list : IList) : IList; Returns a list wrapper
4	that is read-only.
5	
6	Description
7	Returns a read-only System.Collections.IList wrapper.
8	Return Value: A read-only System.Collections.IList wrapper around list.
9	To prevent any modifications to <i>list</i> , expose <i>list</i> only through this wrapper.
10	The System.Collections.IList to wrap.
11	Remove
12	
13	[C#] public virtual void Remove(object obj);
14	[C++] public: virtual void Remove(Object* obj);
15	[VB] Overridable Public Sub Remove(ByVal obj As Object)
16	[JScript] public function Remove(obj : Object);
17	
18	Description
19	Removes the first occurrence of a specific object from the
20	System.Collections.ArrayList.
21	This method performs a linear search; therefore, the average execution time
22	is proportional to System.Collections.ArrayList.Count . That is, this method is
23	an $O(n)$ operation, where n is System.Collections.ArrayList.Count . The
24	System.Object to remove from the System.Collections.ArrayList.
25	RemoveAt

1	
2	[C#] public virtual void RemoveAt(int index);
3	[C++] public: virtual void RemoveAt(int index);
4	[VB] Overridable Public Sub RemoveAt(ByVal index As Integer)
5	[JScript] public function RemoveAt(index : int);
6	
7	Description
8	Removes the element at the specified index of the
9	System.Collections.ArrayList .
10	In collections such as lists, queues and stacks, the elements that follow the
11	removed element move up to occupy the vacated spot. The zero-based index of the
12	element to remove.
13	RemoveRange
14	
15	[C#] public virtual void RemoveRange(int index, int count);
16	[C++] public: virtual void RemoveRange(int index, int count);
17	[VB] Overridable Public Sub RemoveRange(ByVal index As Integer, ByVal
18	count As Integer)
19	[JScript] public function RemoveRange(index : int, count : int);
20	
21	Description
22	Removes a range of elements from the System.Collections.ArrayList.
23	In collections such as lists, queues and stacks, the elements that follow the
24	removed elements move up to occupy the vacated spots. The zero-based starting
25	index of the range of elements to remove. The number of elements to remove.

1	Repeat
2	
3	[C#] public static ArrayList Repeat(object value, int count);
4	[C++] public: static ArrayList* Repeat(Object* value, int count);
5	[VB] Public Shared Function Repeat(ByVal value As Object, ByVal count As
6	Integer) As ArrayList
7	[JScript] public static function Repeat(value : Object, count : int) : ArrayList;
8	
9	Description
10	Returns an System.Collections.ArrayList whose elements are copies of
11	the specified value.
12	Return Value: An System.Collections.ArrayList with count number of elements,
13	all of which are copies of value. The System.Object to copy multiple times in the
14	new System.Collections.ArrayList. The value to copy can be null. The number
15	of times value should be copied.
16	Reverse
17	
18	[C#] public virtual void Reverse();
19	[C++] public: virtual void Reverse();
20	[VB] Overridable Public Sub Reverse()
21	[JScript] public function Reverse(); Reverses the order of the elements in the
22	System.Collections.ArrayList or a portion of it.
23	
24	Description

The statement of the contribution of the statement of the

Reverses the order of the elements in the entire 1 System.Collections.ArrayList. Reverse [C#] public virtual void Reverse(int index, int count); [C++] public: virtual void Reverse(int index, int count); [VB] Overridable Public Sub Reverse(ByVal index As Integer, ByVal count As Integer) 8 [JScript] public function Reverse(index : int, count : int); 9 10 Description 11 Reverses the order of the elements in the specified range. 12 This method uses System.Array.Reverse(System.Array) to reverse the 13 order of the elements, such that the element at System. Collections. ArrayList [i], 14 where i is any index within the range, moves to System.Collections.ArrayList [j], 15 where j equals index + index + count - i - 1. The zero-based starting index of the 16 range to reverse. The number of elements in the range to reverse. 17 SetRange 18 19 [C#] public virtual void SetRange(int index, ICollection c); 20 [C++] public: virtual void SetRange(int index, ICollection* c); 21 [VB] Overridable Public Sub SetRange(ByVal index As Integer, ByVal c As 22 ICollection) 23 [JScript] public function SetRange(index : int, c : ICollection); 24

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Copies the elements of a collection over a range of elements in the System.Collections.ArrayList . The zero-based System.Collections.ArrayList index at which to start copying the elements of c. The

ollections.ICollection whose elements to copy to the ollections.ArrayList.

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ic virtual void Sort();

olic: virtual void Sort();

rridable Public Sub Sort()

public function Sort(); Sorts the elements in the

ollections. Array List or a portion of it.

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rts the elements in the entire System. Collections. Array List using the System.IComparable implementation of each element.

This method uses System.Array.Sort(System.Array), which uses the QuickSort algorithm. This is an $O(n \log n)$ operation, where n is the number of elements to sort.

Sort

[C#] public virtual void Sort(IComparer comparer);

[C++] public: virtual void Sort(IComparer* comparer);

1	[VB] Overridable Public Sub Sort(ByVal comparer As IComparer)
2	[JScript] public function Sort(comparer : IComparer);
3	
4	Description
5	Sorts the elements in the entire System.Collections.ArrayList using the
6	specified comparer.
7	This method uses System.Array.Sort(System.Array), which uses the
8	QuickSort algorithm. This is an $O(n \log n)$ operation, where n is the number of
9	elements to sort. The System.Collections.IComparer implementation to use
10	when comparing elements.
11	Sort
12	
13	[C#] public virtual void Sort(int index, int count, IComparer comparer);
14	[C++] public: virtual void Sort(int index, int count, IComparer* comparer);
15	[VB] Overridable Public Sub Sort(ByVal index As Integer, ByVal count As
16	Integer, ByVal comparer As IComparer)
17	[JScript] public function Sort(index : int, count : int, comparer : IComparer);
18	
19	Description
20	Sorts the elements in a section of System.Collections.ArrayList using the
21	specified comparer.
22	This method uses System.Array.Sort(System.Array), which uses the

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QuickSort algorithm. This is an $O(n \log n)$ operation, where n is the number of

elements to sort. The zero-based starting index of the range to sort. The length of

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the range to sort. The **System.Collections.IComparer** implementation to use when comparing elements.

Synchronized

[C#] public static ArrayList Synchronized(ArrayList list);

[C++] public: static ArrayList* Synchronized(ArrayList* list);

[VB] Public Shared Function Synchronized(ByVal list As ArrayList) As ArrayList [JScript] public static function Synchronized(list: ArrayList): ArrayList;

Description

Returns an **System.Collections.ArrayList** wrapper that is synchronized (thread-safe).

Return Value: An System.Collections.ArrayList wrapper that is synchronized (thread-safe).

To guarantee the thread safety of the **System.Collections.ArrayList**, all operations must be done through this wrapper. The **System.Collections.ArrayList** to synchronize.

Synchronized

[C#] public static IList Synchronized(IList list);

[C++] public: static IList* Synchronized(IList* list);

[VB] Public Shared Function Synchronized(ByVal list As IList) As IList [JScript] public static function Synchronized(list: IList): IList; Returns a list wrapper that is synchronized (thread-safe).

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Returns an **System.Collections.IList** wrapper that is synchronized (thread-safe).

Return Value: An System.Collections.IList wrapper that is synchronized (thread-safe).

To guarantee the thread safety of the **System.Collections.ArrayList**, all operations must be done through this wrapper. The **System.Collections.IList** to synchronize.

ToArray

[C#] public virtual object[] ToArray();

[C++] public: virtual Object* ToArray() __gc[];

[VB] Overridable Public Function ToArray() As Object()

[JScript] public function ToArray(): Object[]; Copies the elements of the

System.Collections.ArrayList to a new array.

Description

Copies the elements of the **System.Collections.ArrayList** to a new **System.Object** array.

Return Value: An System.Object array containing copies of the elements of the System.Collections.ArrayList.

The elements are copied using

System.Array.Copy(System.Array,System.Array,System.Int32), which is an O(n) operation, where n is System.Collections.ArrayList.Count.

1	ToArray
2	
3	[C#] public virtual Array ToArray(Type type);
4	[C++] public: virtual Array* ToArray(Type* type);
5	[VB] Overridable Public Function ToArray(ByVal type As Type) As Array
6	[JScript] public function ToArray(type : Type) : Array;
7	
8	Description
9	Copies the elements of the System.Collections.ArrayList to a new array of
10	the specified type.
11	Return Value: An array of the specified type containing copies of the elements of
12	the System.Collections.ArrayList.
13	The elements are copied using
14	System.Array.Copy(System.Array,System.Array,System.Int32), which is an
15	O(n) operation, where n is System.Collections.ArrayList.Count . The
16	System. Type of array to create and copy elements to.
17	TrimToSize
18	
19	[C#] public virtual void TrimToSize();
20	[C++] public: virtual void TrimToSize();
21	[VB] Overridable Public Sub TrimToSize()
22	[JScript] public function TrimToSize();
23	
24	Description
25	

1	Sets the capacity to the actual number of elements in the
2	System.Collections.ArrayList .
3	This method can be used to minimize a list's memory overhead if no new
4	elements will be added to the list.
5	BitArray class (System.Collections)
6	TrimToSize
7	
8	
9	Description
10	Manages a compact array of bit values, which are represented as Booleans,
11	where true indicates that the bit is on (1) and false indicates the bit is off (0) .
12	The size of a System.Collections.BitArray is controlled by the client;
13	indexing past the end of the System.Collections.BitArray throws an
14	System.ArgumentException .
15	BitArray
16	Example Syntax:
17	TrimToSize
18	
19	[C#] public BitArray(BitArray bits);
20	[C++] public: BitArray(BitArray* bits);
21	[VB] Public Sub New(ByVal bits As BitArray)
22	[JScript] public function BitArray(bits : BitArray);
23	
24	Description

1	Initializes a new instance of the System.Collections.BitArray class that
2	contains bit values copied from the specified System.Collections.BitArray. The
3	System.Collections.BitArray to copy.
4	BitArray
5	Example Syntax:
6	TrimToSize
7	
8	[C#] public BitArray(bool[] values);
9	[C++] public: BitArray(bool valuesgc[]);
10	[VB] Public Sub New(ByVal values() As Boolean)
11	[JScript] public function BitArray(values : Boolean[]);
12	
13	Description
14	Initializes a new instance of the System.Collections.BitArray class that
15	contains bit values copied from the specified array of Booleans. An array of
16	Booleans to copy.
17	BitArray
18	Example Syntax:
19	TrimToSize
20	
21	[C#] public BitArray(byte[] bytes);
22	[C++] public: BitArray(unsigned char bytesgc[]);
23	[VB] Public Sub New(ByVal bytes() As Byte)
24	[JScript] public function BitArray(bytes : Byte[]);
25	

Description

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Initializes a new instance of the **System.Collections.BitArray** class that contains bit values copied from the specified array of bytes.

The first byte in the array represents bits 0 through 7, the second byte represents bits 8 through 15, and so on. The Least Significant Bit of each byte represents the lowest index value: " bytes [0] & 1" represents bit 0, " bytes [0] & 2" represents bit 1, " bytes [0] & 4" represents bit 2, and so on. An array of bytes containing the values to copy, where each byte represents eight consecutive bits.

BitArray

Example Syntax:

TrimToSize

[C#] public BitArray(int length);

[C++] public: BitArray(int length);

[VB] Public Sub New(ByVal length As Integer)

[JScript] public function BitArray(length: int); Initializes a new instance of the **System.Collections.BitArray** class whose capacity and initial values can be specified.

Description

Initializes a new instance of the **System.Collections.BitArray** class that can hold the specified number of bit values, which are initially set to **false**. The number of bit values in the new **System.Collections.BitArray**.

BitArray

1	Example Syntax:
2	TrimToSize
3	
4	[C#] public BitArray(int[] values);
5	[C++] public: BitArray(int valuesgc[]);
6	[VB] Public Sub New(ByVal values() As Integer)
7	[JScript] public function BitArray(values : int[]);
8	
9	Description
10	Initializes a new instance of the System.Collections.BitArray class that
11	contains bit values copied from the specified array of 32-bit integers.
12	The number in the first <i>values</i> array element represents bits 0 through 31,
13	the second number in the array represents bits 32 through 63, and so on. The Leas
14	Significant Bit of each integer represents the lowest index value: "values [0] & 1'
15	represents bit 0, "values [0] & 2" represents bit 1, "values [0] & 4" represents bit
16	2, and so on. An array of integers containing the values to copy, where each
17	integer represents 32 consecutive bits.
18	BitArray
19	Example Syntax:
20	TrimToSize
21	
22	[C#] public BitArray(int length, bool defaultValue);
23	[C++] public: BitArray(int length, bool defaultValue);
24	[VB] Public Sub New(ByVal length As Integer, ByVal defaultValue As Boolean)
25	[JScript] public function BitArray(length: int, defaultValue: Boolean);

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Initializes a new instance of the **System.Collections.BitArray** class that can hold the specified number of bit values, which are initially set to the specified value. The number of bit values in the new **System.Collections.BitArray**. The Boolean value to assign to each bit.

Count

TrimToSize

[C#] public int Count {get;}

[C++] public: __property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count(): int;

Description

Gets the number of elements contained in the

System.Collections.BitArray .

System.Collections.BitArray.Length and

System.Collections.BitArray.Count return the same value.

IsReadOnly

TrimToSize

[C#] public bool IsReadOnly {get;}

[C++] public: __property bool get_IsReadOnly();

[VB] Public ReadOnly Property IsReadOnly As Boolean

1	[JScript] public function get IsReadOnly(): Boolean;
2	
3	Description
4	Gets a value indicating whether the System.Collections.BitArray is read-
5	only.
6	System.Collections.BitArray implements the
7	System.Collections.BitArray.IsReadOnly property because it is required by the
8	System.Collections.IList interface.
9	IsSynchronized
10	TrimToSize
11	
12	[C#] public bool IsSynchronized {get;}
13	[C++] public:property bool get_IsSynchronized();
14	[VB] Public ReadOnly Property IsSynchronized As Boolean
15	[JScript] public function get IsSynchronized(): Boolean;
16	
17	Description
18	Gets a value indicating whether access to the System.Collections.BitArray
19	is synchronized (thread-safe).
20	System.Collections.BitArray implements the
21	System.Collections.BitArray.IsSynchronized property because it is required by
22	the System.Collections.ICollection interface.
23	Item
24	TrimToSize
25	

1	
2	[C#] public bool this[int index] {get; set;}
3	[C++] public:property bool get_Item(int index);public:property void
4	set_Item(int index, bool);
5	[VB] Public Default Property Item(ByVal index As Integer) As Boolean
6	[JScript] returnValue = BitArrayObject.Item(index);BitArrayObject.Item(index) =
7	returnValue;
8	
9	Description
10	Gets or sets the value of the bit at a specific position in the
11	System.Collections.BitArray.
12	This property provides the ability to access a specific element in the
13	collection by using the following syntax: myCollection[index] . The zero-based
14	index of the value to get or set.
15	Length
16	TrimToSize
17	
18	[C#] public int Length {get; set;}
19	[C++] public:property int get_Length();public:property void
20	set_Length(int);
21	[VB] Public Property Length As Integer
22	[JScript] public function get Length(): int;public function set Length(int);
23	
24	Description
25	Gets or sets the number of elements in the System.Collections.BitArray

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1	System.Collections.BitArray.Length and
2	System.Collections.BitArray.Count return the same value.
3	SyncRoot
4	TrimToSize
5	
6	[C#] public object SyncRoot {get;}
7	[C++] public:property Object* get_SyncRoot();
8	[VB] Public ReadOnly Property SyncRoot As Object
9	[JScript] public function get SyncRoot() : Object;
10	
11	Description
12	Gets an object that can be used to synchronize access to the
13	System.Collections.BitArray.
14	Derived classes can provide their own synchronized version of the
15	System.Collections.BitArray using the System.Collections.BitArray.SyncRoot
16	property. The synchronizing code must perform operations on the
17	System.Collections.BitArray.SyncRoot of the System.Collections.BitArray,
18	not directly on the System.Collections.BitArray. This ensures proper operation
19	of collections that are derived from other objects. Specifically, it maintains proper
20	synchronization with other threads that might be simultaneously modifying the
21	System.Collections.BitArray object.
22	And
23	
24	[C#] public BitArray And(BitArray value);
25	[C++] public: BitArray* And(BitArray* value);

1	[VB] Public Function And(ByVal value As BitArray) As BitArray
2	[JScript] public function And(value : BitArray) : BitArray;
3	
4	Description
5	Performs the bitwise AND operation on the elements in the current
6	System.Collections.BitArray against the corresponding elements in the specified
7	System.Collections.BitArray .
8	Return Value: A System.Collections.BitArray containing the result of the bitwise
9	AND operation on the elements in the current System.Collections.BitArray
10	against the corresponding elements in the specified System.Collections.BitArray
11	•
12	The bitwise AND operation returns true if both operands are true, and
13	returns false if one or both operands are false. The System.Collections.BitArray
14	with which to perform the bitwise AND operation.
15	Clone
16	
17	[C#] public object Clone();
18	[C++] public:sealed Object* Clone();
19	[VB] NotOverridable Public Function Clone() As Object
20	[JScript] public function Clone(): Object;
21	
22	Description
23	Creates a shallow copy of the System.Collections.BitArray.
24	Return Value: A shallow copy of the System.Collections.BitArray.
25	

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A shallow copy of a collection is a new collection containing references to the same elements as the original collection. The elements themselves or anything referenced by the elements are not copied. In contrast, a deep copy of a collection copies the elements and everything directly or indirectly referenced by the elements.

CopyTo

[C#] public void CopyTo(Array array, int index);

[C++] public: __sealed void CopyTo(Array* array, int index);

[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array: Array, index: int);

Description

Copies the entire **System.Collections.BitArray** to a compatible onedimensional **System.Array**, starting at the specified index of the target array.

The specified array must be of a compatible type. Only **bool**, **int** and **byte** types of arrays are supported. The one-dimensional **System.Array** that is the destination of the elements copied from **System.Collections.BitArray**. The **System.Array** must have zero-based indexing. The zero-based index in *array* at which copying begins.

Get

[C#] public bool Get(int index);

[C++] public: bool Get(int index);

11	The state of the s
1	[VB] Public Function Get(ByVal index As Integer) As Boolean
2	[JScript] public function Get(index : int) : Boolean;
3	
4	Description
5	Gets the value of the bit at a specific position in the
6	System.Collections.BitArray .
7	Return Value: The value of the bit at position index. The zero-based index of the
8	value to get.
9	GetEnumerator
10	
11	[C#] public IEnumerator GetEnumerator();
12	[C++] public:sealed IEnumerator* GetEnumerator();
13	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
14	[JScript] public function GetEnumerator(): IEnumerator;
15	
16	Description
17	Returns an enumerator that can iterate through the
18	System.Collections.BitArray .
19	Return Value: An System.Collections.IEnumerator for the entire
20	System.Collections.BitArray .
21	Enumerators are intended to be used only to read data in the collection.
22	Enumerators cannot be used to modify the underlying collection.
23	Not
24	
25	[C#] public BitArray Not();

1	[C++] public: BitArray* Not();
2	[VB] Public Function Not() As BitArray
3	[JScript] public function Not(): BitArray;
4	
5	Description
6	Inverts all the bit values in the current System.Collections.BitArray, so
7	that elements set to true are changed to false, and elements set to false are
8	changed to true .
9	Return Value: The current instance with inverted bit values.
10	Or
11	
12	[C#] public BitArray Or(BitArray value);
13	[C++] public: BitArray* Or(BitArray* value);
14	[VB] Public Function Or(ByVal value As BitArray) As BitArray
15	[JScript] public function Or(value : BitArray) : BitArray;
16	
17	Description
18	Performs the bitwise OR operation on the elements in the current
19	System.Collections.BitArray against the corresponding elements in the specified
20	System.Collections.BitArray.
21	Return Value: A System.Collections.BitArray containing the result of the bitwise
22	OR operation on the elements in the current System.Collections.BitArray against
23	the corresponding elements in the specified System.Collections.BitArray.
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The bitwise OR operation returns **true** if one or both operands are **true**, and returns **false** if both operands are **false**. The **System.Collections.BitArray** with which to perform the bitwise OR operation.

Set

[C#] public void Set(int index, bool value);

[C++] public: void Set(int index, bool value);

[VB] Public Sub Set(ByVal index As Integer, ByVal value As Boolean)

[JScript] public function Set(index : int, value : Boolean);

Description

Sets the bit at a specific position in the **System.Collections.BitArray** to the specified value. The zero-based index of the bit to set. The Boolean value to assign to the bit.

SetAll

[C#] public void SetAll(bool value);

[C++] public: void SetAll(bool value);

[VB] Public Sub SetAll(ByVal value As Boolean)

[JScript] public function SetAll(value : Boolean);

Description

Sets all bits in the **System.Collections.BitArray** to the specified value. The Boolean value to assign to all bits.

Xor

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[C#] public BitArray Xor(BitArray value);
[C++] public: BitArray* Xor(BitArray* value);
[VB] Public Function Xor(ByVal value As BitArray) As BitArray
[JScript] public function Xor(value : BitArray) : BitArray;
Description
Performs the bitwise eXclusive OR operation on the elements in the current
System.Collections.BitArray against the corresponding elements in the specified
System.Collections.BitArray.
Return Value: A System.Collections.BitArray containing the result of the bitwise
eXclusive OR operation on the elements in the current
System.Collections.BitArray against the corresponding elements in the specified
System.Collections.BitArray.
The bitwise exclusive OR operation returns true if exactly one operand is
true, and returns false if both operands have the same Boolean value. The
System.Collections.BitArray with which to perform the bitwise eXclusive OR
operation.
CaseInsensitiveComparer class (System.Collections)
Xor
Description
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Compares two objects for equivalence, ignoring the case of strings.

1	System.Collections.CaseInsensitiveComparer implements the
2	System.Collections.IComparer interface supporting case-insensitive
3	comparisons on strings, just as
4	System.Collections.CaseInsensitiveHashCodeProvider implements the
5	System.Collections.IHashCodeProvider interface supporting case-insensitive
6	comparisons on strings.
7	CaseInsensitiveComparer
8	Example Syntax:
9	Xor
10	
11	[C#] public CaseInsensitiveComparer();
12	[C++] public: CaseInsensitiveComparer();
13	[VB] Public Sub New()
14	[JScript] public function CaseInsensitiveComparer(); Initializes a new instance of
15	the System.Collections.CaseInsensitiveComparer class.
16	
17	Description
18	Initializes a new instance of the
19	System.Collections.CaseInsensitiveComparer class using the
20	System.Threading.Thread.CurrentCulture of the current thread.
21	Comparison procedures use the
22	System.Threading.Thread.CurrentCulture of the current thread to determine
23	the sort order. String comparisons might have different results depending on the
24	culture. For more information on culture-specific comparisons, see the
25	System.Globalization namespace and.

1	CaseInsensitiveComparer
2	Example Syntax:
3	Xor
4	
5	[C#] public CaseInsensitiveComparer(CultureInfo culture);
6	[C++] public: CaseInsensitiveComparer(CultureInfo* culture);
7	[VB] Public Sub New(ByVal culture As CultureInfo)
8	[JScript] public function CaseInsensitiveComparer(culture : CultureInfo);
9	
10	Description
11	Initializes a new instance of the
12	System.Collections.CaseInsensitiveComparer class using the specified
13	System.Globalization.CultureInfo .
14	Comparison procedures use the specified
15	System.Globalization.CultureInfo to determine the sort order. String
16	comparisons might have different results depending on the culture. For more
17	information on culture-specific comparisons, see the System.Globalization
18	namespace and . The System.Globalization.CultureInfo to use for the new
19	System.Collections.CaseInsensitiveComparer.
20	Default
21	Xor
22	
23	[C#] public static CaseInsensitiveComparer Default {get;}
24	[C++] public:property static CaseInsensitiveComparer* get_Default();
25	[VB] Public Shared ReadOnly Property Default As CaseInsensitiveComparer

[JScript] public static function get Default(): CaseInsensitiveComparer; 2 Description 3 Gets an instance of System.Collections.CaseInsensitiveComparer that is 4 always available. 5 Compare 6 7 [C#] public int Compare(object a, object b); 8 [C++] public: sealed int Compare(Object* a, Object* b); [VB] NotOverridable Public Function Compare(ByVal a As Object, ByVal b As 10 Object) As Integer 11 [JScript] public function Compare(a: Object, b: Object): int; 12 13 Description 14 Performs a case-insensitive comparison of two objects of the same type and 15 returns a value indicating whether one is less than, equal to or greater than the 16 other. 17 Return Value: Value Condition Less than zero a is less than b, with casing 18 ignored. 19 If a implements **System.IComparable**, then a. The first object to 20 compare. The second object to compare. 21 CaseInsensitiveHashCodeProvider class (System.Collections) 22 **ToString** 23 24 25

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Description

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Supplies a hash code for an object, using a hashing algorithm that ignores the case of strings.

System.Collections.CaseInsensitiveHashCodeProvider implements the System.Collections.IHashCodeProvider interface supporting case-insensitive comparisons on strings, just as System.Collections.CaseInsensitiveComparer implements the System.Collections.IComparer interface supporting case-insensitive comparisons on strings.

CaseInsensitiveHashCodeProvider

Example Syntax:

ToString

[C#] public CaseInsensitiveHashCodeProvider();

[C++] public: CaseInsensitiveHashCodeProvider();

[VB] Public Sub New()

[JScript] public function CaseInsensitiveHashCodeProvider(); Initializes a new instance of the System.Collections.CaseInsensitiveHashCodeProvider class.

Description

Initializes a new instance of the

System.Collections.CaseInsensitiveHashCodeProvider class using the current System.Globalization.CultureInfo .

The System.Globalization.CultureInfo provides information about casing.

1	CaseInsensitiveHashCodeProvider
2	Example Syntax:
3	ToString
4	
5	[C#] public CaseInsensitiveHashCodeProvider(CultureInfo culture);
6	[C++] public: CaseInsensitiveHashCodeProvider(CultureInfo* culture);
7	[VB] Public Sub New(ByVal culture As CultureInfo)
8	[JScript] public function CaseInsensitiveHashCodeProvider(culture : CultureInfo);
9	
10	Description
11	Initializes a new instance of the
12	System.Collections.CaseInsensitiveHashCodeProvider class using the current
13	System.Globalization.CultureInfo .
14	The System.Globalization.CultureInfo provides information about casing.
15	The System.Globalization.CultureInfo to use for the new
16	System.Collections.CaseInsensitiveHashCodeProvider.
17	Default
18	ToString
19	
20	[C#] public static CaseInsensitiveHashCodeProvider Default {get;}
21	[C++] public:property static CaseInsensitiveHashCodeProvider* get_Default();
22	[VB] Public Shared ReadOnly Property Default As
23	CaseInsensitiveHashCodeProvider
24	[JScript] public static function get Default() : CaseInsensitiveHashCodeProvider;
25	

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Description

Gets an instance of

System.Collections.CaseInsensitiveHashCodeProvider that is always available.

GetHashCode

[C#] public int GetHashCode(object obj);

[C++] public: __sealed int GetHashCode(Object* obj);

[VB] NotOverridable Public Function GetHashCode(ByVal obj As Object) As Integer

[JScript] public function GetHashCode(obj : Object) : int; Returns a hash code, using a hashing algorithm that ignores the case of strings.

Description

Returns a hash code for the given object, using a hashing algorithm that ignores the case of strings.

Return Value: A hash code for the given object, using a hashing algorithm that ignores the case of strings.

The return value from this method must not be persisted for two reasons. First, the hash function of a class might be altered to generate a better distribution, rendering any values from the old hash function useless. Second, the default implementation of this class does not guarantee that the same value will be returned by different instances. The **System.Object** for which a hash code is to be returned.

CollectionBase class (System.Collections)

1	ToString
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3	
4	Description
5	Provides the abstract base class for a strongly typed collection.
6	A System.Collections.CollectionBase instance is always modifiable. See
7	System.Collections.ReadOnlyCollectionBase for a read-only version of this
8	class.
9	CollectionBase
10	Example Syntax:
11	ToString
12	
13	[C#] protected CollectionBase();
14	[C++] protected: CollectionBase();
15	[VB] Protected Sub New()
16	[JScript] protected function CollectionBase();
17	Count
18	ToString
19	
20	[C#] public int Count {get;}
21	[C++] public:property int get_Count();
22	[VB] Public ReadOnly Property Count As Integer
23	[JScript] public function get Count(): int;
24	
25	Description

1	Gets the number of elements contained in the
2	System.Collections.CollectionBase instance.
3	InnerList
4	ToString
5	
6	[C#] protected ArrayList InnerList {get;}
7	[C++] protected:property ArrayList* get_InnerList();
8	[VB] Protected ReadOnly Property InnerList As ArrayList
9	[JScript] protected function get InnerList(): ArrayList;
10	
11	Description
12	Gets an System.Collections.ArrayList containing the list of elements in
13	the System.Collections.CollectionBase instance.
14	List
15	ToString
16	
17	[C#] protected IList List {get;}
18	[C++] protected:property IList* get_List();
19	[VB] Protected ReadOnly Property List As IList
20	[JScript] protected function get List(): IList;
21	
22	Description
23	Gets an System.Collections.IList containing the list of elements in the
24	System.Collections.CollectionBase instance.
25	Clear

1	
2	[C#] public void Clear();
3	[C++] public:sealed void Clear();
4	[VB] NotOverridable Public Sub Clear()
5	[JScript] public function Clear();
6	
7	Description
8	Removes all objects from the System.Collections.CollectionBase instance
9	System.Collections.CollectionBase.Count is set to zero.
10	GetEnumerator
11	
12	[C#] public IEnumerator GetEnumerator();
13	[C++] public:sealed IEnumerator* GetEnumerator();
14	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
15	[JScript] public function GetEnumerator(): IEnumerator;
16	
17	Description
18	Returns an enumerator that can iterate through the
19	System.Collections.CollectionBase instance.
20	Return Value: An System.Collections.IEnumerator for the
21	System.Collections.CollectionBase instance.
22	Enumerators are intended to be used only to read data in the collection.
23	Enumerators cannot be used to modify the underlying collection.
24	OnClear
25	

1	
2	[C#] protected virtual void OnClear();
3	[C++] protected: virtual void OnClear();
4	[VB] Overridable Protected Sub OnClear()
5	[JScript] protected function OnClear();
6	
7	Description
8	Performs additional custom processes when clearing the contents of the
9	System.Collections.CollectionBase instance.
10	The default implementation of this method is intended to be overridden by
11	a derived class to perform some action before the collection is cleared.
12	OnClearComplete
13	
14	[C#] protected virtual void OnClearComplete();
15	[C++] protected: virtual void OnClearComplete();
16	[VB] Overridable Protected Sub OnClearComplete()
17	[JScript] protected function OnClearComplete();
18	
19	Description
20	Performs additional custom processes after clearing the contents of the
21	System.Collections.CollectionBase instance.
22	The default implementation of this method is intended to be overridden by
23	a derived class to perform some action after the collection is cleared.
24	OnInsert
25	

1 [C#] protected virtual void OnInsert(int index, object value); 2 [C++] protected: virtual void OnInsert(int index, Object* value); 3 [VB] Overridable Protected Sub OnInsert(ByVal index As Integer, ByVal value As Object) [JScript] protected function OnInsert(index : int, value : Object); 7 Description 8 Performs additional custom processes before inserting a new element into 9 the System.Collections.CollectionBase instance. 10 The default implementation of this method is intended to be overridden by 11 a derived class to perform some action before the specified element is inserted. The zero-based index at which to insert value. The new value of the element at 13 index. 14 OnInsertComplete 15 16 [C#] protected virtual void OnInsertComplete(int index, object value); 17 [C++] protected: virtual void OnInsertComplete(int index, Object* value); 18 [VB] Overridable Protected Sub OnInsertComplete(ByVal index As Integer, 19 ByVal value As Object) 20 [JScript] protected function OnInsertComplete(index : int, value : Object); 21 22 Description 23 Performs additional custom processes after inserting a new element into the 24 System.Collections.CollectionBase instance.

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The default implementation of this method is intended to be overridden by **OnRemove** As Object) Description System.Collections.CollectionBase instance. remove from index. OnRemoveComplete

a derived class to perform some action after the specified element is inserted. The zero-based index at which to insert value. The new value of the element at index.

[C#] protected virtual void OnRemove(int index, object value);

[C++] protected: virtual void OnRemove(int index, Object* value);

[VB] Overridable Protected Sub OnRemove(ByVal index As Integer, ByVal value

[JScript] protected function OnRemove(index : int, value : Object);

Performs additional custom processes when removing an element from the

The default implementation of this method is intended to be overridden by a derived class to perform some action before the specified element is removed. The zero-based index at which value can be found. The value of the element to

[C#] protected virtual void OnRemoveComplete(int index, object value);

[C++] protected: virtual void OnRemoveComplete(int index, Object* value);

[VB] Overridable Protected Sub OnRemoveComplete(ByVal index As Integer,

ByVal value As Object)

[JScript] protected function OnRemoveComplete(index : int, value : Object);

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Description

Performs additional custom processes after removing an element from the **System.Collections.CollectionBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action after the specified element is removed. The zero-based index at which *value* can be found. The value of the element to remove from *index*.

OnSet

[C#] protected virtual void OnSet(int index, object oldValue, object newValue); [C++] protected: virtual void OnSet(int index, Object* oldValue, Object* newValue);

[VB] Overridable Protected Sub OnSet(ByVal index As Integer, ByVal oldValue As Object, ByVal newValue As Object)

[JScript] protected function OnSet(index : int, oldValue : Object, newValue : Object);

Description

Performs additional custom processes before setting a value in the **System.Collections.CollectionBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action before the specified element is set. The zero-based index at which *oldValue* can be found. The value to replace with *newValue*. The new value of the element at *index*.

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[C#] protected virtual void OnSetComplete(int index, object oldValue, object newValue);

[C++] protected: virtual void OnSetComplete(int index, Object* oldValue, Object* newValue);

[VB] Overridable Protected Sub OnSetComplete(ByVal index As Integer, ByVal oldValue As Object, ByVal newValue As Object)

[JScript] protected function OnSetComplete(index : int, oldValue : Object, newValue : Object);

Description

Performs additional custom processes after setting a value in the **System.Collections.CollectionBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action after the specified element is set. The zero-based index at which *oldValue* can be found. The value to replace with *newValue*. The new value of the element at *index*.

OnValidate

[C#] protected virtual void OnValidate(object value);

[C++] protected: virtual void OnValidate(Object* value);

[VB] Overridable Protected Sub OnValidate(ByVal value As Object)

[JScript] protected function OnValidate(value : Object);

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Description

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Performs additional custom processes when validating a value.

The default implementation of this method determines whether *value* is **null**, and, if so, throws **System.ArgumentNullException**. It is intended to be overridden by a derived class to perform additional action when the specified element is validated. The object to validate.

RemoveAt

[C#] public void RemoveAt(int index);

[C++] public: sealed void RemoveAt(int index);

[VB] NotOverridable Public Sub RemoveAt(ByVal index As Integer)

[JScript] public function RemoveAt(index: int);

Description

Removes the element at the specified index of the

$System. Collections. Collection Base \ instance. \\$

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The zero-based index of the element to remove.

ICollection.CopyTo

[C#] void ICollection.CopyTo(Array array, int index);

[C++] void ICollection::CopyTo(Array* array, int index);

[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer) Implements

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```
ICollection.CopyTo
    [JScript] function ICollection.CopyTo(array: Array, index: int);
2
           IList.Add
3
    [C#] int IList.Add(object value);
    [C++] int IList::Add(Object* value);
    [VB] Function Add(ByVal value As Object) As Integer Implements IList.Add
7
    [JScript] function IList.Add(value : Object) : int;
           IList.Contains
9
10
    [C#] bool IList.Contains(object value);
11
    [C++] bool IList::Contains(Object* value);
12
    [VB] Function Contains(ByVal value As Object) As Boolean Implements
13
    IList.Contains
14
    [JScript] function IList.Contains(value : Object) : Boolean;
15
           IList.IndexOf
16
17
    [C#] int IList.IndexOf(object value);
18
    [C++] int IList::IndexOf(Object* value);
    [VB] Function IndexOf(ByVal value As Object) As Integer Implements
20
    IList.IndexOf
21
    [JScript] function IList.IndexOf(value: Object): int;
22
            IList.Insert
23
24
     [C#] void IList.Insert(int index, object value);
```

```
[C++] void IList::Insert(int index, Object* value);
    [VB] Sub Insert(ByVal index As Integer, ByVal value As Object) Implements
2
    IList.Insert
3
    [JScript] function IList.Insert(index: int, value: Object);
           IList.Remove
5
6
    [C#] void IList.Remove(object value);
7
    [C++] void IList::Remove(Object* value);
8
    [VB] Sub Remove(ByVal value As Object) Implements IList.Remove
9
    [JScript] function IList.Remove(value : Object);
10
           Comparer class (System.Collections)
11
           ToString
12
13
14
    Description
15
           Compares two objects for equivalence, where string comparisons are case-
16
    sensitive.
17
           This class is the default implementation of the
18
    System.Collections.IComparer interface. The
19
    System.Collections.CaseInsensitiveComparer class is the implementation of the
20
    System.Collections.IComparer interface that performs case-insensitive string
21
    comparisons.
22
           ToString
23
24
    [C#] public static readonly Comparer Default;
```

1	[C++] public: static Comparer* Default;
2	[VB] Public Shared ReadOnly Default As Comparer
3	[JScript] public static var Default : Comparer;
4	
5	Description
6	Gets an instance of System.Collections.Comparer that is always available.
7	An instance of System.Collections.Comparer that is always available.
8	Compare
9	
10	[C#] public int Compare(object a, object b);
11	[C++] public:sealed int Compare(Object* a, Object* b);
12	[VB] NotOverridable Public Function Compare(ByVal a As Object, ByVal b As
13	Object) As Integer
14	[JScript] public function Compare(a : Object, b : Object) : int;
15	
16	Description
17	Performs a case-sensitive comparison of two objects of the same type and
18	returns a value indicating whether one is less than, equal to or greater than the
19	other.
20	Return Value: Value Condition Less than zero a is less than b .
21	If a implements System.IComparable , then a . The first object to
22	compare. The second object to compare.
23	DictionaryBase class (System.Collections)
24	ToString
25	

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2	
3	Description
4	Provides the abstract base class for a strongly typed collection of key-and-
5	value pairs.
6	Each element is a key-and-value pair stored in a
7	System.Collections.DictionaryEntry object.
8	DictionaryBase
9	Example Syntax:
10	ToString
11	
12	[C#] protected DictionaryBase();
13	[C++] protected: DictionaryBase();
14	[VB] Protected Sub New()
15	[JScript] protected function DictionaryBase();
16	Count
17	ToString
18	
19	[C#] public int Count {get;}
20	[C++] public:property int get_Count();
21	[VB] Public ReadOnly Property Count As Integer
22	[JScript] public function get Count(): int;
23	
24	Description
25	

1	Gets the number of elements contained in the
	System.Collections.DictionaryBase instance.
2	
3	Dictionary
4	ToString
5	
6	[C#] protected IDictionary Dictionary {get;}
7	[C++] protected:property IDictionary* get_Dictionary();
8	[VB] Protected ReadOnly Property Dictionary As IDictionary
9	[JScript] protected function get Dictionary(): IDictionary;
10	
11	Description
12	Gets the list of elements contained in the
13	System.Collections.DictionaryBase instance.
14	InnerHashtable
15	ToString
16	
17	[C#] protected Hashtable InnerHashtable {get;}
18	[C++] protected:property Hashtable* get_InnerHashtable();
19	[VB] Protected ReadOnly Property InnerHashtable As Hashtable
20	[JScript] protected function get InnerHashtable(): Hashtable;
21	
22	Description
23	Gets the list of elements contained in the
24	System.Collections.DictionaryBase instance.
25	Clear

1	
2	[C#] public void Clear();
3	[C++] public:sealed void Clear();
4	[VB] NotOverridable Public Sub Clear()
5	[JScript] public function Clear();
6	
7	Description
8	Clears the contents of the System.Collections.DictionaryBase instance.
9	System.Collections.DictionaryBase.Count is set to zero.
10	СоруТо
11	
12	[C#] public void CopyTo(Array array, int index);
13	[C++] public:sealed void CopyTo(Array* array, int index);
14	[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As
15	Integer)
16	[JScript] public function CopyTo(array : Array, index : int);
17	
18	Description
19	Copies the System.Collections.DictionaryBase elements to a one-
20	dimensional System.Array at the specified index.
21	The elements are copied to the System.Array in the same order in which
22	the enumerator iterates through the System.Collections.DictionaryBase. The
23	one-dimensional System.Array that is the destination of the
24	System.Collections.DictionaryEntry objects copied from the
25	

1	System.Collections.DictionaryBase instance. The System.Array must have zero-
2	based indexing. The zero-based index in array at which copying begins.
3	GetEnumerator
4	
5	[C#] public IDictionaryEnumerator GetEnumerator();
6	[C++] public:sealed IDictionaryEnumerator* GetEnumerator();
7	[VB] NotOverridable Public Function GetEnumerator() As IDictionaryEnumerator
8	[JScript] public function GetEnumerator(): IDictionaryEnumerator;
9	
10	Description
11	Returns an enumerator that can iterate through the
12	System.Collections.DictionaryBase instance.
13	Return Value: An System.Collections.IEnumerator for the
14	System.Collections.DictionaryBase instance.
15	Enumerators are intended to be used only to read data in the collection.
16	Enumerators cannot be used to modify the underlying collection.
17	OnClear
18	
19	[C#] protected virtual void OnClear();
20	[C++] protected: virtual void OnClear();
21	[VB] Overridable Protected Sub OnClear()
22	[JScript] protected function OnClear();
23	
24	Description
25	

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Performs additional custom processes before clearing the contents of the **System.Collections.DictionaryBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action before the collection is cleared.

OnClearComplete

[C#] protected virtual void OnClearComplete();

[C++] protected: virtual void OnClearComplete();

[VB] Overridable Protected Sub OnClearComplete()

[JScript] protected function OnClearComplete();

Description

Performs additional custom processes after clearing the contents of the **System.Collections.DictionaryBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action after the collection is cleared.

OnGet

[C#] protected virtual object OnGet(object key, object currentValue);

[C++] protected: virtual Object* OnGet(Object* key, Object* currentValue);

[VB] Overridable Protected Function OnGet(ByVal key As Object, ByVal

currentValue As Object) As Object

[JScript] protected function OnGet(key: Object, currentValue: Object): Object;

Description

24

25

1

Gets the element with the specified key and value in the **System.Collections.DictionaryBase** instance.

Return Value: An System.Object containing the element with the specified key and value.

The default implementation of this method returns *currentValue*. It is intended to be overridden by a derived class to perform additional action when the specified element is retrieved. The key of the element to get. The current value of the element associated with *key*.

OnInsert

[C#] protected virtual void OnInsert(object key, object value);

[C++] protected: virtual void OnInsert(Object* key, Object* value);

[VB] Overridable Protected Sub OnInsert(ByVal key As Object, ByVal value As Object)

[JScript] protected function OnInsert(key: Object, value: Object);

Description

Performs additional custom processes before inserting a new element into the **System.Collections.DictionaryBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action before the specified element is inserted.

The key of the element to insert. The value of the element to insert.

OnInsertComplete

[C#] protected virtual void OnInsertComplete(object key, object value);

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[C++] protected: virtual void OnInsertComplete(Object* key, Object* value); [VB] Overridable Protected Sub OnInsertComplete(ByVal key As Object, ByVal value As Object) [JScript] protected function OnInsertComplete(key : Object, value : Object); Description Performs additional custom processes after inserting a new element into the System.Collections.DictionaryBase instance. The default implementation of this method is intended to be overridden by a derived class to perform some action after the specified element is inserted. The key of the element to insert. The value of the element to insert. OnRemove [C#] protected virtual void OnRemove(object key, object value); [C++] protected: virtual void OnRemove(Object* key, Object* value); [VB] Overridable Protected Sub OnRemove(ByVal key As Object, ByVal value As Object) [JScript] protected function OnRemove(key: Object, value: Object);

Description

Performs additional custom processes before removing an element from the System.Collections.DictionaryBase instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action before the specified element is removed.

The key of the element to remove. The value of the element to remove.

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OnRemoveComplete

[C#] protected virtual void OnRemoveComplete(object key, object value);

[C++] protected: virtual void OnRemoveComplete(Object* key, Object* value);

[VB] Overridable Protected Sub OnRemoveComplete(ByVal key As Object,

ByVal value As Object)

[JScript] protected function OnRemoveComplete(key: Object, value: Object);

Description

Performs additional custom processes after removing an element from the **System.Collections.DictionaryBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action after the specified element is removed. The key of the element to remove. The value of the element to remove.

OnSet

[C#] protected virtual void OnSet(object key, object oldValue, object newValue);

[C++] protected: virtual void OnSet(Object* key, Object* oldValue, Object*

newValue);

[VB] Overridable Protected Sub OnSet(ByVal key As Object, ByVal oldValue As

Object, ByVal newValue As Object)

[JScript] protected function OnSet(key: Object, oldValue: Object, newValue:

Object);

Description

Performs additional custom processes before setting a value in the System.Collections.DictionaryBase instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action before the specified element is set. The key of the element to locate. The old value of the element associated with *key*. The new value of the element associated with *key*.

OnSetComplete

[C#] protected virtual void OnSetComplete(object key, object oldValue, object newValue);

[C++] protected: virtual void OnSetComplete(Object* key, Object* oldValue, Object* newValue);

[VB] Overridable Protected Sub OnSetComplete(ByVal key As Object, ByVal oldValue As Object, ByVal newValue As Object)

[JScript] protected function OnSetComplete(key : Object, oldValue : Object, newValue : Object);

Description

Performs additional custom processes after setting a value in the **System.Collections.DictionaryBase** instance.

The default implementation of this method is intended to be overridden by a derived class to perform some action after the specified element is set. The key of the element to locate. The old value of the element associated with *key*. The new value of the element associated with *key*.

OnValidate

1	
2	[C#] protected virtual void OnValidate(object key, object value);
3	[C++] protected: virtual void OnValidate(Object* key, Object* value);
4	[VB] Overridable Protected Sub OnValidate(ByVal key As Object, ByVal value
5	As Object)
6	[JScript] protected function OnValidate(key: Object, value: Object);
7	
8	Description
9	Performs additional custom processes when validating the element with the
10	specified key and value.
11	The default implementation of this method is intended to be overridden by
12	a derived class to perform some action when the specified element is validated.
13	The key of the element to validate. The value of the element to validate.
14	IDictionary.Add
15	
16	[C#] void IDictionary.Add(object key, object value);
17	[C++] void IDictionary::Add(Object* key, Object* value);
18	[VB] Sub Add(ByVal key As Object, ByVal value As Object) Implements
19	IDictionary.Add
20	[JScript] function IDictionary.Add(key: Object, value: Object);
21	IDictionary.Contains
22	
23	[C#] bool IDictionary.Contains(object key);
24	[C++] bool IDictionary::Contains(Object* key);
25	[VB] Function Contains(ByVal key As Object) As Boolean Implements

1	IDictionary.Contains
2	[JScript] function IDictionary.Contains(key: Object): Boolean;
3	IDictionary.Remove
4	
5	[C#] void IDictionary.Remove(object key);
6	[C++] void IDictionary::Remove(Object* key);
7	[VB] Sub Remove(ByVal key As Object) Implements IDictionary.Remove
8	[JScript] function IDictionary.Remove(key: Object);
9	IEnumerable.GetEnumerator
10	
11	[C#] IEnumerator IEnumerable.GetEnumerator();
12	[C++] IEnumerator* IEnumerable::GetEnumerator();
13	[VB] Function GetEnumerator() As IEnumerator Implements
14	IEnumerable.GetEnumerator
15	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
16	DictionaryEntry structure (System.Collections)
17	ToString
18	
19	
20	Description
21	Defines a dictionary key-and-value pair that can be set or retrieved.
22	The System.Collections.IDictionaryEnumerator.Entry method returns
23	an instance of this class.
24	DictionaryEntry
25	Example Syntax:

1	ToString
2	
3	[C#] public DictionaryEntry(object key, object value);
4	[C++] public: DictionaryEntry(Object* key, Object* value);
5	[VB] Public Sub New(ByVal key As Object, ByVal value As Object)
6	[JScript] public function DictionaryEntry(key : Object, value : Object);
7	
8	Description
9	Initializes an instance of the System.Collections.DictionaryEntry class
10	with the specified key and value. The object defined in each key-and-value pair.
11	The definition associated with key.
12	Key
13	ToString
14	
15	[C#] public object Key {get; set;}
16	[C++] public:property Object* get_Key();public:property void
17	set_Key(Object*);
18	[VB] Public Property Key As Object
19	[JScript] public function get Key() : Object;public function set Key(Object);
20	
21	Description
22	Gets or sets the key in the key-and-value pair.
23	Value
24	ToString
25	

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[C#] public object Value {get; set;}
2
    [C++] public: __property Object* get_Value();public: __property void
3
    set_Value(Object*);
4
    [VB] Public Property Value As Object
5
    [JScript] public function get Value() : Object; public function set Value(Object);
7
    Description
8
           Gets or sets the value in the key-and-value pair.
9
           Hashtable class (System.Collections)
10
           ToString
11
12
13
    Description
14
           Represents a collection of key-and-value pairs that are organized based on
15
    the hash code of the key.
16
            Each element is a key-and-value pair stored in a
17
    System.Collections.DictionaryEntry object.
18
            Hashtable
19
            Example Syntax:
20
            ToString
21
22
     [C#] public Hashtable();
23
     [C++] public: Hashtable();
24
     [VB] Public Sub New()
25
```

[JScript] public function Hashtable(); Initializes a new instance of the **System.Collections.Hashtable** class.

Description

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Creates an empty **System.Collections.Hashtable** with the default initial capacity and using the default load factor, the default hash code provider and the default comparer.

A hashtable's capacity is used to calculate the optimal number of hashtable buckets based on the load factor. The default initial capacity is zero. Capacity is automatically increased as required.

Hashtable

Example Syntax:

ToString

[C#] public Hashtable(IDictionary d);

[C++] public: Hashtable(IDictionary* d);

[VB] Public Sub New(ByVal d As IDictionary)

[JScript] public function Hashtable(d: IDictionary);

Description

Copies the elements from the specified dictionary to a new **System.Collections.Hashtable** with the same initial capacity as the number of elements copied and using the default load factor, the default hash code provider and the default comparer.

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ToString

The initial capacity is set to the number of elements in the source dictionary. Capacity is automatically increased as required based on the load factor. The System.Collections.IDictionary to copy to a new System. Collections. Hashtable.Hashtable Example Syntax: **ToString** [C#] public Hashtable(int capacity); [C++] public: Hashtable(int capacity); [VB] Public Sub New(ByVal capacity As Integer) [JScript] public function Hashtable(capacity: int); Description Creates an empty System. Collections. Hashtable with the specified initial capacity and using the default load factor, the default hash code provider and the default comparer. Specifying the initial capacity eliminates the need to perform a number of resizing operations while adding elements to the System. Collections. Hashtable. Capacity is automatically increased as required based on the load factor. The approximate number of elements that the System.Collections.Hashtable can initially contain. Hashtable Example Syntax:

lee@hayes pilc 509-324-9256 1412 MS1-862US.APF

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1 [C#] public Hashtable(IDictionary d, float loadFactor); 2 [C++] public: Hashtable(IDictionary* d, float loadFactor); 3 4 5 6 Description 7 8 9 10 and the default comparer. 11 12 13 14 15 16 Hashtable 17

[VB] Public Sub New(ByVal d As IDictionary, ByVal loadFactor As Single) [JScript] public function Hashtable(d : IDictionary, loadFactor : float);

Copies the elements from the specified dictionary to a new System. Collections. Hashtable with the same initial capacity as the number of elements copied and using the specified load factor, the default hash code provider

The initial capacity is set to the number of elements in the source dictionary. Capacity is automatically increased as required based on the load factor. The System.Collections.IDictionary to copy to a new System.Collections.Hashtable. A number in the range from 0.1 through 1.0 indicating the maximum ratio of elements to buckets.

Example Syntax:

ToString

[C#] public Hashtable(IHashCodeProvider hcp, IComparer comparer);

[C++] public: Hashtable(IHashCodeProvider* hcp, IComparer* comparer);

[VB] Public Sub New(ByVal hcp As IHashCodeProvider, ByVal comparer As

IComparer)

[JScript] public function Hashtable(hcp: IHashCodeProvider, comparer:

1413 MS1-862US.APP lee@hayes plic 509+324+9256

IComparer);

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Description

Creates an empty System. Collections. Hashtable with the default initial capacity and using the default load factor, the specified hash code provider and the specified comparer.

A hashtable's capacity is used to calculate the optimal number of hashtable buckets based on the load factor. The default initial capacity is zero. Capacity is automatically increased as required. The

System.Collections.IHashCodeProvider that supplies the hash codes for all keys in the System.Collections.Hashtable. The System.Collections.IComparer to use to determine whether two keys are equal.

Hashtable

Example Syntax:

ToString

[C#] public Hashtable(int capacity, float loadFactor);

[C++] public: Hashtable(int capacity, float loadFactor);

[VB] Public Sub New(ByVal capacity As Integer, ByVal loadFactor As Single)

[JScript] public function Hashtable(capacity: int, loadFactor: float);

Description

Creates an empty System.Collections.Hashtable with the specified initial capacity and using the specified load factor, the default hash code provider and the default comparer.

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comparer);

Specifying the initial capacity eliminates the need to perform a number of resizing operations while adding elements to the System.Collections.Hashtable. Capacity is automatically increased as required based on the load factor. The approximate number of elements that the System.Collections.Hashtable can initially contain. A number in the range from 0.1 through 1.0 indicating the maximum ratio of elements to buckets. Hashtable Example Syntax: **ToString** [C#] protected Hashtable(SerializationInfo info, StreamingContext context); [C++] protected: Hashtable(SerializationInfo* info, StreamingContext context); [VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As StreamingContext) [JScript] protected function Hashtable(info: SerializationInfo, context: StreamingContext); Hashtable Example Syntax: **ToString** [C#] public Hashtable(IDictionary d, IHashCodeProvider hcp, IComparer comparer); [C++] public: Hashtable(IDictionary* d, IHashCodeProvider* hcp, IComparer*

[VB] Public Sub New(ByVal d As IDictionary, ByVal hcp As

1	IHashCodeProvider, ByVal comparer As IComparer)
2	[JScript] public function Hashtable(d: IDictionary, hcp: IHashCodeProvider,
3	comparer: IComparer);
4	
5	Description
6	Copies the elements from the specified dictionary to a new
7	System.Collections.Hashtable with the same initial capacity as the number of
8	elements copied and using the default load factor, the specified hash code provider
9	and the specified comparer.
10	The initial capacity is set to the number of elements in the source
11	dictionary. Capacity is automatically increased as required based on the load
12	factor. The System.Collections.IDictionary to copy to a new
13	System.Collections.Hashtable. The System.Collections.IHashCodeProvider
14	that supplies the hash codes for all keys in the System.Collections.Hashtable.
15	The System.Collections.IComparer to use to determine whether two keys are
16	equal.
17	Hashtable
18	Example Syntax:
19	ToString
20	
21	[C#] public Hashtable(int capacity, IHashCodeProvider hcp, IComparer
22	comparer);
23	[C++] public: Hashtable(int capacity, IHashCodeProvider* hcp, IComparer*
24	comparer);

[VB] Public Sub New(ByVal capacity As Integer, ByVal hcp As

1	IHashCodeProvider, ByVal comparer As IComparer)
2	[JScript] public function Hashtable(capacity: int, hcp: IHashCodeProvider,
3	comparer : IComparer);
4	
5	Description
6	Creates an empty System.Collections.Hashtable with the specified initial
7	capacity and using the default load factor, the specified hash code provider and the
8	specified comparer.
9	Specifying the initial capacity eliminates the need to perform a number of
10	resizing operations while adding elements to the System.Collections.Hashtable.
11	Capacity is automatically increased as required based on the load factor. The
12	approximate number of elements that the System.Collections.Hashtable can
13	initially contain. The System.Collections.IHashCodeProvider that supplies the
14	hash codes for all keys in the System.Collections.Hashtable. The
15	System.Collections.IComparer to use to determine whether two keys are equal.
16	Hashtable
17	Example Syntax:
18	ToString
19	
20	[C#] public Hashtable(IDictionary d, float loadFactor, IHashCodeProvider hcp,
21	IComparer comparer);
22	[C++] public: Hashtable(IDictionary* d, float loadFactor, IHashCodeProvider*
23	hcp, IComparer* comparer);
24	[VB] Public Sub New(ByVal d As IDictionary, ByVal loadFactor As Single,

ByVal hcp As IHashCodeProvider, ByVal comparer As IComparer)

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[JScript] public function Hashtable(d: IDictionary, loadFactor: float, hcp: IHashCodeProvider, comparer: IComparer); Description Copies the elements from the specified dictionary to a new System.Collections.Hashtable with the same initial capacity as the number of elements copied and using the specified load factor, the specified hash code provider and the specified comparer. The initial capacity is set to the number of elements in the source dictionary. Capacity is automatically increased as required based on the load factor. The System.Collections.IDictionary to copy to a new System.Collections.Hashtable. A number in the range from 0.1 through 1.0 indicating the maximum ratio of elements to buckets. The System.Collections.IHashCodeProvider that supplies the hash codes for all keys in the System.Collections.Hashtable. The System.Collections.IComparer to use to determine whether two keys are equal. Hashtable Example Syntax: **ToString** [C#] public Hashtable(int capacity, float loadFactor, IHashCodeProvider hcp, IComparer comparer); [C++] public: Hashtable(int capacity, float loadFactor, IHashCodeProvider* hcp, IComparer* comparer);

[VB] Public Sub New(ByVal capacity As Integer, ByVal loadFactor As Single,

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ByVal hcp As IHashCodeProvider, ByVal comparer As IComparer) [JScript] public function Hashtable(capacity: int, loadFactor: float, hcp: IHashCodeProvider, comparer: IComparer); Description Creates an empty System. Collections. Hashtable with the specified initial capacity and using the specified load factor, the specified hash code provider and 7 the specified comparer. 8 Specifying the initial capacity eliminates the need to perform a number of 9 resizing operations while adding elements to the System. Collections. Hashtable. 10 Capacity is automatically increased as required based on the load factor. The 11 approximate number of elements that the System.Collections.Hashtable can 12 initially contain. A number in the range from 0.1 through 1.0 indicating the 13 maximum ratio of elements to buckets. The 14 System.Collections.IHashCodeProvider that supplies the hash codes for all keys 15 in the System.Collections.Hashtable. The System.Collections.IComparer to use 16 to determine whether two keys are equal. 17 comparer 18 **ToString** 19 20 [C#] protected IComparer comparer {get; set;} 21 [C++] protected: __property IComparer* get_comparer();protected: __property 22 void set comparer(IComparer*); 23 [VB] Protected Property comparer As IComparer 24

[JScript] protected function get comparer(): IComparer;protected function set

1	comparer(IComparer);
2	
3	Description
4	Gets or sets the comparer to use for the System.Collections.Hashtable.
5	Count
6	ToString
7	
8	[C#] public virtual int Count {get;}
9	[C++] public:property virtual int get_Count();
10	[VB] Overridable Public ReadOnly Property Count As Integer
11	[JScript] public function get Count(): int;
12	
13	Description
14	Gets the number of key-and-value pairs contained in the
15	System.Collections.Hashtable.
16	hcp
17	ToString
18	
19	[C#] protected IHashCodeProvider hcp {get; set;}
20	[C++] protected:property IHashCodeProvider* get_hcp();protected:property
21	<pre>void set_hcp(IHashCodeProvider*);</pre>
22	[VB] Protected Property hcp As IHashCodeProvider
23	[JScript] protected function get hcp(): IHashCodeProvider;protected function set
24	hcp(IHashCodeProvider);
25	

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2	Description
3	Gets or sets the object that can dispense hash codes.
4	IsFixedSize
5	ToString
6	
7	[C#] public virtual bool IsFixedSize {get;}
8	[C++] public:property virtual bool get_IsFixedSize();
9	[VB] Overridable Public ReadOnly Property IsFixedSize As Boolean
10	[JScript] public function get IsFixedSize(): Boolean;
11	
12	Description
13	Gets a value indicating whether the System.Collections.Hashtable has a
14	fixed size.
15	A collection with a fixed size does not allow the addition or removal of
16	elements, but it allows the modification of existing elements.
17	IsReadOnly
18	ToString
19	
20	[C#] public virtual bool IsReadOnly {get;}
21	[C++] public:property virtual bool get_IsReadOnly();
22	[VB] Overridable Public ReadOnly Property IsReadOnly As Boolean
23	[JScript] public function get IsReadOnly(): Boolean;
24	
25	Description
	11

1	Gets a value indicating whether the System. Collections. Hashtable is read-
2	only.
3	IsSynchronized
4	ToString
5	
6	[C#] public virtual bool IsSynchronized {get;}
7	[C++] public:property virtual bool get_IsSynchronized();
8	[VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
9	[JScript] public function get IsSynchronized(): Boolean;
10	
11	Description
12	Gets a value indicating whether access to the
13	System.Collections.Hashtable is synchronized (thread-safe).
14	A System.Collections.Hashtable can safely support one writer and
15	multiple readers concurrently. To support multiple writers, all operations must be
16	done through the wrapper returned by the
17	System.Collections.Hashtable.Synchronized(System.Collections.Hashtable)
18	method.
19	Item
20	ToString
21	
22	[C#] public virtual object this[object key] {get; set;}
23	[C++] public:property virtual Object* get_Item(Object* key);public:
24	property virtual void set_Item(Object* key, Object*);
25	[VB] Overridable Public Default Property Item(ByVal key As Object) As Object

1	[JScript] returnValue = HashtableObject.Item(key); HashtableObject.Item(key) =
2	returnValue;
3	
4	Description
5	Gets or sets the value associated with the specified key.
6	This property provides the ability to access a specific element in the
7	collection by using the following syntax: myCollection[key] . The key whose
8	value to get or set.
9	Keys
10	ToString
11	
12	[C#] public virtual ICollection Keys {get;}
13	[C++] public:property virtual ICollection* get_Keys();
14	[VB] Overridable Public ReadOnly Property Keys As ICollection
15	[JScript] public function get Keys(): ICollection;
16	
17	Description
18	Gets an System.Collections.ICollection containing the keys in the
19	System.Collections.Hashtable .
20	The order of the keys in the System.Collections.ICollection is unspecified
21	but it is the same order as the associated values in the
22	System.Collections.ICollection returned by the
23	System.Collections.Hashtable.Values method.
24	SyncRoot
25	ToString

1	
2	[C#] public virtual object SyncRoot {get;}
3	[C++] public:property virtual Object* get_SyncRoot();
4	[VB] Overridable Public ReadOnly Property SyncRoot As Object
5	[JScript] public function get SyncRoot() : Object;
6	
7	Description
8	Gets an object that can be used to synchronize access to the
9	System.Collections.Hashtable .
10	To create a synchronized version of the System.Collections.Hashtable,
11	use the
12	System.Collections.Hashtable.Synchronized(System.Collections.Hashtable)
13	method. However, derived classes can provide their own synchronized version of
14	the System.Collections.Hashtable using the
15	System.Collections.Hashtable.SyncRoot property. The synchronizing code must
16	perform operations on the System.Collections.Hashtable.SyncRoot of the
17	System.Collections.Hashtable, not directly on the
18	System.Collections.Hashtable. This ensures proper operation of collections that
19	are derived from other objects. Specifically, it maintains proper synchronization
20	with other threads that might be simultaneously modifying the
21	System.Collections.Hashtable object.
22	Values
23	ToString
24	
25	[C#] public virtual ICollection Values {get;}

[C++] public: __property virtual ICollection* get_Values();[VB] Overridable Public ReadOnly Property Values As ICollection[JScript] public function get Values() : ICollection;

Description

Gets an **System.Collections.ICollection** containing the values in the **System.Collections.Hashtable** .

The order of the values in the **System.Collections.ICollection** is unspecified, but it is the same order as the associated keys in the **System.Collections.ICollection** returned by the **System.Collections.Hashtable.Keys** method.

Add

[C#] public virtual void Add(object key, object value);

[C++] public: virtual void Add(Object* key, Object* value);

[VB] Overridable Public Sub Add(ByVal key As Object, ByVal value As Object)

[JScript] public function Add(key: Object, value: Object);

Description

Adds an element with the specified key and value into the System.Collections.Hashtable.

An object that has no correlation between its state and its hash code value should typically not be used as the key. For example, String objects are better than StringBuilder objects for use as keys. The key of the element to add. The value of the element to add.

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[C#] public virtual void Clear();
[C++] public: virtual void Clear();
[VB] Overridable Public Sub Clear()
[JScript] public function Clear();

Description

Clear

Removes all elements from the System.Collections.Hashtable .

System.Collections.Hashtable.Count is set to zero.

Clone

[C#] public virtual object Clone();

[C++] public: virtual Object* Clone();

[VB] Overridable Public Function Clone() As Object

[JScript] public function Clone(): Object;

Description

Creates a shallow copy of the System.Collections.Hashtable .

Return Value: A shallow copy of the System.Collections.Hashtable.

A shallow copy of a collection is a new collection containing references to the same elements as the original collection. The elements themselves or anything referenced by the elements are not copied. In contrast, a deep copy of a collection copies the elements and everything directly or indirectly referenced by the elements.

1	Contains
2	
3	[C#] public virtual bool Contains(object key);
4	[C++] public: virtual bool Contains(Object* key);
5	[VB] Overridable Public Function Contains(ByVal key As Object) As Boolean
6	[JScript] public function Contains(key : Object) : Boolean;
7	
8	Description
9	Determines whether the System.Collections.Hashtable contains a specific
10	key.
11	Return Value: true if the System.Collections.Hashtable contains an element with
12	the specified key; otherwise, false.
13	This implementation is close to $O(1)$ in most cases. The key to locate in the
14	System.Collections.Hashtable.
15	ContainsKey
16	
17	[C#] public virtual bool ContainsKey(object key);
18	[C++] public: virtual bool ContainsKey(Object* key);
19	[VB] Overridable Public Function ContainsKey(ByVal key As Object) As
20	Boolean
21	[JScript] public function ContainsKey(key: Object): Boolean;
22	
23	Description
24	Determines whether the System.Collections.Hashtable contains a specific
25	key.

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Return Value: true if the System.Collections.Hashtable contains an element with the specified key; otherwise, false.

This implementation is close to O(1) in most cases. The key to locate in the **System.Collections.Hashtable**.

ContainsValue

[C#] public virtual bool ContainsValue(object value);

[C++] public: virtual bool ContainsValue(Object* value);

[VB] Overridable Public Function ContainsValue(ByVal value As Object) As

Boolean

[JScript] public function ContainsValue(value : Object) : Boolean;

Description

Determines whether the **System.Collections.Hashtable** contains a specific value.

Return Value: true if the System.Collections.Hashtable contains an element with the specified value; otherwise, false.

This method performs a linear search; therefore, the average execution time is proportional to **System.Collections.Hashtable.Count**. That is, this method is an O(n) operation, where n is **System.Collections.Hashtable.Count**. The value to locate in the **System.Collections.Hashtable**.

CopyTo

[C#] public virtual void CopyTo(Array array, int arrayIndex);

[C++] public: virtual void CopyTo(Array* array, int arrayIndex);

	[VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal arrayIndex
1	
2	As Integer)
3	[JScript] public function CopyTo(array: Array, arrayIndex: int);
4	
5	Description
6	Copies the System.Collections.Hashtable elements to a one-dimensional
7	System.Array instance at the specified index.
8	The elements are copied to the System.Array in the same order in which
9	the enumerator iterates through the System.Collections.Hashtable. The one-
10	dimensional System.Array that is the destination of the
11	System.Collections.DictionaryEntry objects copied from
12	System.Collections.Hashtable. The System.Array must have zero-based
13	indexing. The zero-based index in array at which copying begins.
14	GetEnumerator
15	
16	[C#] public virtual IDictionaryEnumerator GetEnumerator();
17	[C++] public: virtual IDictionaryEnumerator* GetEnumerator();
18	[VB] Overridable Public Function GetEnumerator() As IDictionaryEnumerator
19	[JScript] public function GetEnumerator(): IDictionaryEnumerator;
20	
21	Description
22	Returns an enumerator that can iterate through the
23	System.Collections.Hashtable .
24	Return Value: An System.Collections.IDictionaryEnumerator for the
25	System.Collections.Hashtable .

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ByVal context As StreamingContext)

Enumerators are intended to be used only to read data in the collection. Enumerators cannot be used to modify the underlying collection. GetHash [C#] protected virtual int GetHash(object key); [C++] protected: virtual int GetHash(Object* key); [VB] Overridable Protected Function GetHash(ByVal key As Object) As Integer [JScript] protected function GetHash(key: Object): int; Description Returns the hash code for the specified key. Return Value: The hash code for key. If the hashtable was created with a specific System.Collections.IHashCodeProvider implementation, this method uses that hash code provider; otherwise, it uses the System.Object.GetHashCode implementation of key. The System.Object for which a hash code is to be returned. **GetObjectData** [C#] public virtual void GetObjectData(SerializationInfo info, StreamingContext context); [C++] public: virtual void GetObjectData(SerializationInfo* info, StreamingContext context); [VB] Overridable Public Sub GetObjectData(ByVal info As SerializationInfo,

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[JScript] public function GetObjectData(info: SerializationInfo, context: StreamingContext); Description Implements the System.Runtime.Serialization.ISerializable interface and returns the data needed to serialize the System.Collections.Hashtable . A System.Runtime.Serialization.SerializationInfo object containing the information required to serialize the System.Collections.Hashtable. A System.Runtime.Serialization.StreamingContext object containing the source and destination of the serialized stream associated with the System.Collections.Hashtable. KeyEquals [C#] protected virtual bool KeyEquals(object item, object key); [C++] protected: virtual bool KeyEquals(Object* item, Object* key); [VB] Overridable Protected Function KeyEquals(ByVal item As Object, ByVal key As Object) As Boolean [JScript] protected function KeyEquals(item: Object, key: Object): Boolean; Description Compares a specific System.Object with a specific key in the System.Collections.Hashtable. Return Value: true if item and key are equal; otherwise, false. If the hashtable was created with a specific

System.Collections.IComparer implementation, this method uses that comparer;

1	that is,
2	$System. Collections. I Comparer. Compare (System. Object, System. Object) \ (item. Collections) \ (item. Col$
3	, key). Otherwise, it uses item. Equals(key) . The System. Object to compare with
4	key. The key in the System.Collections.Hashtable to compare with item.
5	OnDeserialization
6	
7	[C#] public virtual void OnDeserialization(object sender);
8	[C++] public: virtual void OnDeserialization(Object* sender);
9	[VB] Overridable Public Sub OnDeserialization(ByVal sender As Object)
10	[JScript] public function OnDeserialization(sender : Object);
11	
12	Description
13	Implements the System.Runtime.Serialization.ISerializable interface and
14	raises the deserialization event when the deserialization is complete. The source of
15	the deserialization event.
16	Remove
17	
18	[C#] public virtual void Remove(object key);
19	[C++] public: virtual void Remove(Object* key);
20	[VB] Overridable Public Sub Remove(ByVal key As Object)
21	[JScript] public function Remove(key : Object);
22	
23	Description
24	Removes the element with the specified key from the
25	System.Collections.Hashtable .

If the **System.Collections.Hashtable** does not contain an element with the specified key, the **System.Collections.Hashtable** remains unchanged. No exception is thrown. The key of the element to remove.

Synchronized

[C#] public static Hashtable Synchronized(Hashtable table);

[C++] public: static Hashtable* Synchronized(Hashtable* table);

[VB] Public Shared Function Synchronized(ByVal table As Hashtable) As

Hashtable

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[JScript] public static function Synchronized(table : Hashtable) : Hashtable;

Description

Returns a synchronized (thread-safe) wrapper for the System.Collections.Hashtable.

Return Value: A synchronized (thread-safe) wrapper for the

System.Collections.Hashtable.

A **System.Collections.Hashtable** can safely support one writer and multiple readers concurrently. To support multiple writers, all operations must be done through this wrapper only. The **System.Collections.Hashtable** to synchronize.

IEnumerable.GetEnumerator

[C#] IEnumerator IEnumerable.GetEnumerator();

[C++] IEnumerator* IEnumerable::GetEnumerator();

[VB] Function GetEnumerator() As IEnumerator Implements

IEnumerable.GetEnumerator
TEMUMETABLE. Octanumerator
[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
ICollection interface (System.Collections)
ToString
Description
Defines size, enumerators and synchronization methods for all collections.
The System.Collections.ICollection interface is the base interface for
classes in the System.Collections namespace.
Count
ToString
[C#] int Count {get;}
[C++] int get_Count();
[VB] ReadOnly Property Count As Integer
[JScript] abstract function get Count(): int;
Description
When implemented by a class, gets the number of elements contained in the
System.Collections.ICollection .
IsSynchronized
ToString
[C#] bool IsSynchronized {get;}

1	[C++] bool get_IsSynchronized();
2	[VB] ReadOnly Property IsSynchronized As Boolean
3	[JScript] abstract function get IsSynchronized(): Boolean;
4	
5	Description
6	When implemented by a class, gets a value indicating whether access to the
7	System.Collections.ICollection is synchronized (thread-safe).
8	System.Collections.ICollection.SyncRoot returns an object, which can be
9	used to synchronize access to the System.Collections.ICollection.
10	SyncRoot
11	ToString
12	
13	[C#] object SyncRoot {get;}
14	[C++] Object* get_SyncRoot();
15	[VB] ReadOnly Property SyncRoot As Object
16	[JScript] abstract function get SyncRoot() : Object;
17	
18	Description
19	When implemented by a class, gets an object that can be used to
20	synchronize access to the System.Collections.ICollection.
21	For collections whose underlying store is not publicly available, the
22	expected implementation is to return the current instance. Note that the pointer to
23	the current instance might not be sufficient for collections that wrap other
24	collections; those should return the underlying collection's SyncRoot property.

СоруТо

1	
2	[C#] void CopyTo(Array array, int index);
3	[C++] void CopyTo(Array* array, int index);
4	[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer)
5	[JScript] function CopyTo(array: Array, index: int);
6	
7	Description
8	When implemented by a class, copies the elements of the
9	System.Collections.ICollection to an System.Array, starting at a particular
10	System.Array index. The one-dimensional System.Array that is the destination
11	of the elements copied from System.Collections.ICollection. The System.Array
12	must have zero-based indexing. The zero-based index in array at which copying
13	begins.
14	IComparer interface (System.Collections)
15	СоруТо
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18	Description
19	Exposes a method that compares two objects.
20	This interface is used in conjunction with the
21	System.Array.Sort(System.Array) and
22	System.Array.BinarySearch(System.Array,System.Object) methods. It
23	provides a way to customize the sort order of a collection.
24	Compare
25	

1	
2	[C#] int Compare(object x, object y);
3	[C++] int Compare(Object* x, Object* y);
4	[VB] Function Compare(ByVal x As Object, ByVal y As Object) As Integer
5	[JScript] function Compare(x : Object, y : Object) : int;
6	
7	Description
8	Compares two objects and returns a value indicating whether one is less
9	than, equal to or greater than the other.
10	Return Value: Value Condition Less than zero x is less than y .
11	The preferred implementation is to use the
12	System.IComparable.CompareTo(System.Object) method of one of the
13	parameters. First object to compare. Second object to compare.
14	IDictionary interface (System.Collections)
15	Compare
16	
17	
18	Description
19	Represents a collection of key-and-value pairs.
20	The System.Collections.IDictionary class is the base interface for
21	collections of key-and-value pairs.
22	IsFixedSize
23	Compare
24	
25	[C#] bool IsFixedSize {get;}

1	[C++] bool get_IsFixedSize();
2	[VB] ReadOnly Property IsFixedSize As Boolean
3	[JScript] abstract function get IsFixedSize(): Boolean;
4	
5	Description
6	When implemented by a class, gets a value indicating whether the
7	System.Collections.IDictionary has a fixed size.
8	A collection with a fixed size does not allow the addition or removal of
9	elements, but it allows the modification of existing elements.
10	IsReadOnly
11	Compare
12	
13	[C#] bool IsReadOnly {get;}
14	[C++] bool get_IsReadOnly();
15	[VB] ReadOnly Property IsReadOnly As Boolean
16	[JScript] abstract function get IsReadOnly(): Boolean;
17	
18	Description
19	When implemented by a class, gets a value indicating whether the
20	System.Collections.IDictionary is read-only.
21	Item
22	Compare
23	
24	[C#] object this[object key] {get; set;}
25	[C++] Object* get_Item(Object* key);void set_Item(Object* key, Object*);

1	[VB] Default Property Item(By val key As Object) As Object
2	[JScript] abstract returnValue =
3	IDictionaryObject.Item(key);IDictionaryObject.Item(key) = returnValue;
4	
5	Description
6	When implemented by a class, gets or sets the element with the specified
7	key.
8	This property provides the ability to access a specific element in the
9	collection by using the following syntax: myCollection[key] . The key of the
10	element to get or set.
11	Keys
12	Compare
13	
14	[C#] ICollection Keys {get;}
15	[C++] ICollection* get_Keys();
16	[VB] ReadOnly Property Keys As ICollection
17	[JScript] abstract function get Keys(): ICollection;
18	
19	Description
20	When implemented by a class, gets an System.Collections.ICollection
21	containing the keys of the System.Collections.IDictionary.
22	The order of the keys in the returned System.Collections.ICollection is
23	unspecified, but it is guaranteed to be the same order as the corresponding values
24	in the System.Collections.ICollection returned by the
	System Collections IDictionary Values method

1	Values
2	Compare
3	
4	[C#] ICollection Values {get;}
5	[C++] ICollection* get_Values();
6	[VB] ReadOnly Property Values As ICollection
7	[JScript] abstract function get Values(): ICollection;
8	
9	Description
10	When implemented by a class, gets an System.Collections.ICollection
11	containing the values in the System.Collections.IDictionary.
12	The order of the values in the returned System.Collections.ICollection is
13	unspecified, but it is guaranteed to be the same order as the corresponding keys in
14	the System.Collections.ICollection returned by the
15	System.Collections.IDictionary.Keys method.
16	Add
17	
18	[C#] void Add(object key, object value);
19	[C++] void Add(Object* key, Object* value);
20	[VB] Sub Add(ByVal key As Object, ByVal value As Object)
21	[JScript] function Add(key : Object, value : Object);
22	
23	Description
24	When implemented by a class, adds an element with the provided key and
25	value to the System.Collections.IDictionary.

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The System.Collections.IDictionary.Item(System.Object) property can also be used to add new elements by setting the value of a key that does not exist in the dictionary. For example: myCollection["myNonexistentKey"] = myValue. However, if the specified key already exists in the dictionary, setting the System.Collections.IDictionary.Item(System.Object) property overwrites the old value. In contrast, the System.Collections.IDictionary.Add(System.Object,System.Object) method does not modify existing elements. The System.Object to use as the key of the element to add. The System.Object to use as the value of the element to add. Clear [C#] void Clear(); [C++] void Clear(); [VB] Sub Clear() [JScript] function Clear(); Description When implemented by a class, removes all elements from the System.Collections.IDictionary. Contains [C#] bool Contains(object key); [C++] bool Contains(Object* key); [VB] Function Contains(ByVal key As Object) As Boolean

[JScript] function Contains(key: Object): Boolean;

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When implemented by a class, determines whether the

System.Collections.IDictionary contains an element with the specified key.

Return Value: true if the System.Collections.IDictionary contains an element

with the key; otherwise, false. The key to locate in the

System.Collections.IDictionary.

GetEnumerator

[C#] IDictionaryEnumerator GetEnumerator();

[C++] IDictionaryEnumerator* GetEnumerator();

[VB] Function GetEnumerator() As IDictionaryEnumerator

[JScript] function GetEnumerator(): IDictionaryEnumerator;

Description

When implemented by a class, returns an

System.Collections.IDictionaryEnumerator for the

 ${\bf System. Collections. IDictionary}\ .$

Return Value: An System.Collections.IDictionaryEnumerator for the

 ${\bf System. Collections. IDictionary}\ .$

Enumerators are intended to be used only to read data in the collection.

Enumerators cannot be used to modify the underlying collection.

Remove

[C#] void Remove(object key);

```
[C++] void Remove(Object* key);
    [VB] Sub Remove(ByVal key As Object)
2
    [JScript] function Remove(key: Object);
3
    Description
5
           When implemented by a class, removes the element with the specified key
6
    from the System.Collections.IDictionary .
7
           In collections such as lists, queues and stacks, the elements that follow the
8
    removed element move up to occupy the vacated spot. The key of the element to
    remove.
10
           IDictionaryEnumerator interface (System.Collections)
11
           Remove
12
13
14
    Description
15
           Enumerates the elements of a dictionary.
16
           Enumerators are intended to be used only to read data in the collection.
17
    Enumerators cannot be used to modify the underlying collection.
18
           Entry
19
           Remove
20
21
    [C#] DictionaryEntry Entry {get;}
22
     [C++] DictionaryEntry get_Entry();
23
     [VB] ReadOnly Property Entry As DictionaryEntry
24
     [JScript] abstract function get Entry(): DictionaryEntry;
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When implemented by a class, gets both the key and the value of the current dictionary entry.

After an enumerator is created or after a

System.Collections.IEnumerator.Reset,

System.Collections.IEnumerator.MoveNext must be called to advance the enumerator to the first element of the collection before reading the value of System.Collections.IDictionaryEnumerator.Entry; otherwise,

 ${\bf System. Collections. IDictionary Enumerator. Entry \ is \ undefined.}$

Key

Remove

[C#] object Key {get;}

[C++] Object* get_Key();

[VB] ReadOnly Property Key As Object

[JScript] abstract function get Key(): Object;

Description

When implemented by a class, gets the key of the current dictionary entry.

After an enumerator is created or after a

 ${\bf System. Collections. IEnumerator. Reset}\ ,$

System.Collections.IEnumerator.MoveNext must be called to advance the enumerator to the first element of the collection before reading the value of

1	System.Collections.IDictionaryEnumerator.Key; otherwise,
2	System.Collections.IDictionaryEnumerator.Key is undefined.
3	Value
4	Remove
5	
6	[C#] object Value {get;}
7	[C++] Object* get_Value();
8	[VB] ReadOnly Property Value As Object
9	[JScript] abstract function get Value() : Object;
10	
11	Description
12	When implemented by a class, gets the value of the current dictionary
13	entry.
14	After an enumerator is created or after a
15	System.Collections.IEnumerator.Reset,
16	System.Collections.IEnumerator.MoveNext must be called to advance the
17	enumerator to the first element of the collection before reading the value of
18	System.Collections.IDictionaryEnumerator.Value; otherwise,
19	System.Collections.IDictionaryEnumerator.Value is undefined.
20	IEnumerable interface (System.Collections)
21	Remove
22	
23	
24	Description
25	

Exposes the enumerator, which supports a simple iteration over a 1 collection. 2 System.Collections.IEnumerable must be implemented to support the 3 For Each semantics of Microsoft Visual Basic. COM classes that allow 4 enumerators also implement this interface. 5 GetEnumerator 6 7 [C#] IEnumerator GetEnumerator(); 8 [C++] IEnumerator* GetEnumerator(); [VB] Function GetEnumerator() As IEnumerator 10 [JScript] function GetEnumerator(): IEnumerator; 11 12 Description 13 Returns an enumerator that can iterate through a collection. 14 Return Value: An System.Collections.IEnumerator that can be used to iterate 15 through the collection. 16 Enumerators are intended to be used only to read data in the collection. 17 Enumerators cannot be used to modify the underlying collection. 18 IEnumerator interface (System.Collections) 19 GetEnumerator 20 21 22 Description 23 Supports a simple iteration over a collection. 24 System.Collections.IEnumerator is the base interface for all enumerators.

1	Current
2	GetEnumerator
3	
4	[C#] object Current {get;}
5	[C++] Object* get_Current();
6	[VB] ReadOnly Property Current As Object
7	[JScript] abstract function get Current() : Object;
8	
9	Description
10	Gets the current element in the collection.
11	After an enumerator is created or after a
12	System.Collections.IEnumerator.Reset,
13	System.Collections.IEnumerator.MoveNext must be called to advance the
14	enumerator to the first element of the collection before reading the value of
15	System.Collections.IEnumerator.Current; otherwise,
16	System.Collections.IEnumerator.Current is undefined.
17	MoveNext
18	
19	[C#] bool MoveNext();
20	[C++] bool MoveNext();
21	[VB] Function MoveNext() As Boolean
22	[JScript] function MoveNext(): Boolean;
23	
24	Description
25	

Advances the enumerator to the next element of the collection.

Return Value: true if the enumerator was successfully advanced to the next element; false if the enumerator has passed the end of the collection.

After an enumerator is created or after a call to

System.Collections.IEnumerator.Reset, an enumerator is positioned before the first element of the collection, and the first call to

System.Collections.IEnumerator.MoveNext moves the enumerator over the first element of the collection.

Reset

[C#] void Reset();

Description

[VB] Sub Reset()

[JScript] function Reset();

Sets the enumerator to its initial position, which is before the first element in the collection.

All calls to **System.Collections.IEnumerator.Reset** must result in the same state for the enumerator. This may involve taking a new snapshot of the collection or moving to the beginning of the collection.

IHashCodeProvider interface (System.Collections)

Reset

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Des	crip	uon

Supplies a hash code for an object, using a custom hash function.

The System.Collections.IHashCodeProvider interface is used in conjunction with System.Collections.Hashtable . The objects used as keys by a System.Collections.Hashtable must implement or inherit the System.Object.GetHashCode and System.Object.Equals(System.Object) methods. However, if the System.Collections.Hashtable constructor is passed a reference to an object that implements both the

System.Collections.IHashCodeProvider interface and the

System.Collections.IComparer interface, then

System.Collections.IHashCodeProvider.GetHashCode(System.Object) and System.Collections.IComparer.Compare(System.Object,System.Object) can be used instead.

GetHashCode

[C#] int GetHashCode(object obj);

[C++] int GetHashCode(Object* obj);

[VB] Function GetHashCode(ByVal obj As Object) As Integer

[JScript] function GetHashCode(obj : Object) : int;

Description

Returns a hash code for the specified object.

Return Value: A hash code for the specified object.

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The return value from this method must not be persisted for two reasons. First, the hash function of a class might be altered to generate a better distribution, rendering any values from the old hash function useless. Second, the default implementation of this class does not guarantee that the same value will be returned by different instances. The **System.Object** for which a hash code is to be returned.

IList interface (System.Collections)

GetHashCode

Description

Represents a collection of objects that can be individually accessed by index.

System.Collections.IList is a descendant of the

System.Collections.ICollection interface and is the base interface of all lists.

IsFixedSize

GetHashCode

[C#] bool IsFixedSize {get;}

[C++] bool get IsFixedSize();

[VB] ReadOnly Property IsFixedSize As Boolean

[JScript] abstract function get IsFixedSize(): Boolean;

Description

When implemented by a class, gets a value indicating whether the 1 System.Collections.IList has a fixed size. 2 A collection with a fixed size does not allow the addition or removal of 3 elements, but it allows the modification of existing elements. 4 IsReadOnly 5 GetHashCode 7 [C#] bool IsReadOnly {get;} 8 [C++] bool get IsReadOnly(); 9 [VB] ReadOnly Property IsReadOnly As Boolean 10 [JScript] abstract function get IsReadOnly(): Boolean; 11 12 Description 13 When implemented by a class, gets a value indicating whether the 14 **System.Collections.IList** is read-only. 15 Item 16 GetHashCode 17 18 [C#] object this[int index] {get; set;} 19 [C++] Object* get_Item(int index);void set_Item(int index, Object*); 20 [VB] Default Property Item(ByVal index As Integer) As Object 21 $[JScript]\ abstract\ return Value = IListObject. Item(index); IListObject. Item(index) = IListObject. Item($ 22 returnValue; 23 24 Description

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When implemented by a class, gets or sets the element at the specified index.

This property provides the ability to access a specific element in the

This property provides the ability to access a specific element in the collection by using the following syntax: myCollection[index] . The zero-based index of the element to get or set.

Add

```
[C#] int Add(object value);
```

```
[C++] int Add(Object* value);
```

[VB] Function Add(ByVal value As Object) As Integer

[JScript] function Add(value : Object) : int;

Description

When implemented by a class, adds an item to the

System. Collections. IL ist.

Return Value: The position into which the new element was inserted. The

System.Object to add to the System.Collections.IList.

Clear

[C#] void Clear();

[C++] void Clear();

[VB] Sub Clear()

[JScript] function Clear();

Description

When implemented by a class, removes all items from the 1 System.Collections.IList. 2 Contains 3 4 [C#] bool Contains(object value); 5 [C++] bool Contains(Object* value); 6 [VB] Function Contains(ByVal value As Object) As Boolean 7 [JScript] function Contains(value : Object) : Boolean; 8 9 Description 10 When implemented by a class, determines whether the 11 System.Collections.IList contains a specific value. 12 Return Value: true if the System.Object is found in the System.Collections.IList 13 ; otherwise, false. The System.Object to locate in the System.Collections.IList. 14 IndexOf 15 16 [C#] int IndexOf(object value); 17 [C++] int IndexOf(Object* value); 18 [VB] Function IndexOf(ByVal value As Object) As Integer 19 [JScript] function IndexOf(value : Object) : int; 20 21 Description 22 When implemented by a class, determines the index of a specific item in 23 the System.Collections.IList.

1	Return Value: The index of value if found in the list; otherwise, -1. The
2	System.Object to locate in the System.Collections.IList.
3	Insert
4	
5	[C#] void Insert(int index, object value);
6	[C++] void Insert(int index, Object* value);
7	[VB] Sub Insert(ByVal index As Integer, ByVal value As Object)
8	[JScript] function Insert(index : int, value : Object);
9	
10	Description
11	When implemented by a class, inserts an item to the
12	System.Collections.IList at the specified position.
13	If index equals the number of items in the System.Collections.IList, then
14	value is appended to the end. The zero-based index at which value should be
15	inserted. The System.Object to insert into the System.Collections.IList.
16	Remove
17	
18	[C#] void Remove(object value);
19	[C++] void Remove(Object* value);
20	[VB] Sub Remove(ByVal value As Object)
21	[JScript] function Remove(value : Object);
22	
23	Description
24	When implemented by a class, removes the first occurrence of a specific
25	object from the System.Collections.IList.

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The **System.Object** to remove from the **System.Collections.IList**.

RemoveAt

[C#] void RemoveAt(int index);

[C++] void RemoveAt(int index);

[VB] Sub RemoveAt(ByVal index As Integer)

[JScript] function RemoveAt(index: int);

Description

When implemented by a class, removes the **System.Collections.IList** item at the specified index.

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The zero-based index of the item to remove.

Queue class (System.Collections)

RemoveAt

Description

Represents a first-in, first-out collection of objects.

Queues are useful for storing messages in the order they were received for sequential processing. This class implements a queue as a circular array. Objects stored in a **System.Collections.Queue** are inserted at one end and removed from

the other. If the number of elements added to the System.Collections.Queue reaches the current capacity, the capacity is automatically increased to 2 accommodate more elements. The capacity can be decreased by calling 3 System.Collections.Queue.TrimToSize. Oueue 5 Example Syntax: RemoveAt 7 8 [C#] public Queue(); [C++] public: Queue(); 10 [VB] Public Sub New() 11 [JScript] public function Queue(); Initializes a new instance of the 12 System.Collections.Queue class. 13 14 Description 15 Initializes a new instance of the System. Collections. Queue class that is 16 empty, has the default initial capacity and uses the default growth factor. 17 The initial capacity is the starting capacity of the new 18 System.Collections.Queue . The growth factor is the number by which the current 19 capacity is multiplied when a greater capacity is required. The default initial 20 capacity is 32 and the default growth factor is 2.0. 21 Queue 22 Example Syntax: 23 RemoveAt 24

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1	
2	[C#] public Queue(ICollection col);
3	[C++] public: Queue(ICollection* col);
4	[VB] Public Sub New(ByVal col As ICollection)
5	[JScript] public function Queue(col: ICollection);
6	
7	Description
8	Initializes a new instance of the System.Collections.Queue class that
9	contains elements copied from the specified collection, has the same initial
10	capacity as the number of elements copied and uses the default growth factor.
11	The initial capacity is the starting capacity of the new
12	System.Collections.Queue . The growth factor is the number by which the current
13	capacity is multiplied when a greater capacity is required. The default initial
14	capacity is 32 and the default growth factor is 2.0. The
15	System.Collections.ICollection to copy elements from.
16	Queue
17	Example Syntax:
18	RemoveAt
19	
20	[C#] public Queue(int capacity);
21	[C++] public: Queue(int capacity);
22	[VB] Public Sub New(ByVal capacity As Integer)
23	[JScript] public function Queue(capacity: int);
24	
25	Description

Initializes a new instance of the **System.Collections.Queue** class that is empty, has the specified initial capacity and uses the default growth factor.

The initial capacity is the starting capacity of the new System.Collections.Queue. The growth factor is the number by which the current capacity is multiplied when a greater capacity is required. The default initial capacity is 32 and the default growth factor is 2.0. The initial number of elements that the System.Collections.Queue can contain.

Queue

Example Syntax:

RemoveAt

[C#] public Queue(int capacity, float growFactor);

[C++] public: Queue(int capacity, float growFactor);

[VB] Public Sub New(ByVal capacity As Integer, ByVal growFactor As Single)

[JScript] public function Queue(capacity: int, growFactor: float);

Description

Initializes a new instance of the **System.Collections.Queue** class that is empty, has the specified initial capacity and uses the specified growth factor.

The initial capacity is the starting capacity of the new System.Collections.Queue. The growth factor is the number by which the current capacity is multiplied when a greater capacity is required. The default initial capacity is 32 and the default growth factor is 2.0. The initial number of elements that the System.Collections.Queue can contain. The factor by which the capacity of the System.Collections.Queue is expanded.

1	Count
2	RemoveAt
3	
4	[C#] public virtual int Count {get;}
5	[C++] public:property virtual int get_Count();
6	[VB] Overridable Public ReadOnly Property Count As Integer
7	[JScript] public function get Count(): int;
8	
9	Description
10	Gets the number of elements contained in the System.Collections.Queue.
11	System.Collections.Queue.Count is the number of elements that are
12	actually in the System.Collections.Queue. The capacity of a
13	System.Collections.Queue is the number of elements that the
14	System.Collections.Queue is capable of storing.
15	IsSynchronized
16	RemoveAt
17	
18	[C#] public virtual bool IsSynchronized {get;}
19	[C++] public:property virtual bool get_IsSynchronized();
20	[VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
21	[JScript] public function get IsSynchronized(): Boolean;
22	
23	Description
24	Gets a value indicating whether access to the System.Collections.Queue is
25	synchronized (thread-safe).

To guarantee the thread safety of the System.Collections.Queue, all operations must be done through the wrapper returned by the System.Collections.Queue.Synchronized(System.Collections.Queue) method.

SyncRoot

RemoveAt

[C#] public virtual object SyncRoot {get;}

[C++] public: __property virtual Object* get_SyncRoot();

[VB] Overridable Public ReadOnly Property SyncRoot As Object

[JScript] public function get SyncRoot(): Object;

Description

Gets an object that can be used to synchronize access to the System.Collections.Queue.

To create a synchronized version of the <code>System.Collections.Queue</code>, use the <code>System.Collections.Queue.Synchronized(System.Collections.Queue)</code> method. However, derived classes can provide their own synchronized version of the <code>System.Collections.Queue</code> using the <code>System.Collections.Queue.SyncRoot</code> property. The synchronizing code must perform operations on the <code>System.Collections.Queue.SyncRoot</code> of the <code>System.Collections.Queue</code>, not directly on the <code>System.Collections.Queue</code>. This ensures proper operation of collections that are derived from other objects. Specifically, it maintains proper synchronization with other threads that might be simultaneously modifying the <code>System.Collections.Queue</code> object.

Clear

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1	
2	[C#] public virtual void Clear();
3	[C++] public: virtual void Clear();
4	[VB] Overridable Public Sub Clear()
5	[JScript] public function Clear();
6	
7	Description
8	Removes all objects from the System.Collections.Queue.
9	System.Collections.Queue.Count is set to zero. To reset the capacity of
10	the $System.Collections.Queue$, call $System.Collections.Queue.TrimToSize$.
11	Trimming an empty System.Collections.Queue sets the capacity of the
12	System.Collections.Queue to the default capacity, not zero.
13	Clone
14	
15	[C#] public virtual object Clone();
16	[C++] public: virtual Object* Clone();
17	[VB] Overridable Public Function Clone() As Object
18	[JScript] public function Clone(): Object;
19	
20	Description
21	Creates a shallow copy of the System.Collections.Queue.
22	Return Value: A shallow copy of the System.Collections.Queue.
23	A shallow copy of a collection is a new collection containing references to
24	the same elements as the original collection. The elements themselves or anything
25	referenced by the elements are not copied. In contrast, a deep copy of a collection
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copies the elements and everything directly or indirectly referenced by the elements. Contains [C#] public virtual bool Contains(object obj); [C++] public: virtual bool Contains(Object* obj); [VB] Overridable Public Function Contains(ByVal obj As Object) As Boolean [JScript] public function Contains(obj : Object) : Boolean; Description Determines whether an element is in the System. Collections. Queue. Return Value: true if obj is found in the System. Collections. Queue; otherwise, false. This method performs a linear search; therefore, the average execution time is proportional to ${\bf System. Collections. Queue. Count}$. That is, this method is an O(n) operation, where n is System.Collections.Queue.Count . The System.Object to locate in the System.Collections.Queue. The element to locate can be null. CopyTo [C#] public virtual void CopyTo(Array array, int index); [C++] public: virtual void CopyTo(Array* array, int index); [VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array: Array, index: int);

Description

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Copies the **System.Collections.Queue** elements to an existing onedimensional **System.Array**, starting at the specified array index.

The elements are copied to the **System.Array** in the same order in which the enumerator iterates through the **System.Collections.Queue**. The one-dimensional **System.Array** that is the destination of the elements copied from **System.Collections.Queue**. The **System.Array** must have zero-based indexing. The zero-based index in *array* at which copying begins.

Dequeue

[C#] public virtual object Dequeue();

[C++] public: virtual Object* Dequeue();

[VB] Overridable Public Function Dequeue() As Object

[JScript] public function Dequeue(): Object;

Description

Removes and returns the object at the beginning of the System.Collections.Queue.

Return Value: The object that is removed from the beginning of the System.Collections.Queue.

This method is similar to the **System.Collections.Queue.Peek** method, but **System.Collections.Queue.Peek** does not modify the **System.Collections.Queue**

Enqueue

1 [C#] public virtual void Enqueue(object obj); 2 [C++] public: virtual void Enqueue(Object* obj); 3 [VB] Overridable Public Sub Enqueue(ByVal obj As Object) 4 [JScript] public function Enqueue(obj : Object); 5 6 Description 7 Adds an object to the end of the System.Collections.Queue. 8 If System.Collections.Queue.Count already equals the capacity of the 9 System.Collections.Queue, the capacity is increased by automatically 10 reallocating the internal array before copying the old elements and adding the new 11 element. The new capacity is determined by multiplying the current capacity by 12 the growth factor, which is determined when the System. Collections. Queue is 13 constructed. The object to add to the System.Collections.Queue. 14 GetEnumerator 15 16 [C#] public virtual IEnumerator GetEnumerator(); 17

[C++] public: virtual IEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator;

Description

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Returns an enumerator that can iterate through the System.Collections.Queue.

1	Return Value: An System.Collections.IEnumerator for the
2	System.Collections.Queue .
3	Enumerators are intended to be used only to read data in the collection.
4	Enumerators cannot be used to modify the underlying collection.
5	Peek
6	
7	[C#] public virtual object Peek();
8	[C++] public: virtual Object* Peek();
9	[VB] Overridable Public Function Peek() As Object
10	[JScript] public function Peek() : Object;
11	
12	Description
13	Returns the object at the beginning of the System.Collections.Queue
14	without removing it.
15	Return Value: The object at the beginning of the System.Collections.Queue.
16	This method is similar to the System.Collections.Queue.Dequeue method
17	but System.Collections.Queue.Peek does not modify the
18	System.Collections.Queue.
19	Synchronized
20	
21	[C#] public static Queue Synchronized(Queue queue);
22	[C++] public: static Queue* Synchronized(Queue* queue);
23	[VB] Public Shared Function Synchronized(ByVal queue As Queue) As Queue
24	[JScript] public static function Synchronized(queue : Queue) : Queue;
25	

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2	Description
3	Returns a System.Collections.Queue wrapper that is synchronized (thread-
4	safe).
5	Return Value: A System.Collections.Queue wrapper that is synchronized (thread-
6	safe).
7	To guarantee the thread safety of the System.Collections.Queue, all
8	operations must be done through this wrapper only. The
9	System.Collections.Queue to synchronize.
10	ToArray
11	
12	[C#] public virtual object[] ToArray();
13	[C++] public: virtual Object* ToArray()gc[];
14	[VB] Overridable Public Function ToArray() As Object()
15	[JScript] public function ToArray() : Object[];
16	
17	Description
18	Copies the System.Collections.Queue elements to a new array.
19	Return Value: A new array containing elements copied from the
20	System.Collections.Queue .
21	The System.Collections.Queue is not modified. The order of the elements
22	in the new array is the same as the order of the elements from the beginning of the
23	System.Collections.Queue to its end.
24	TrimToSize
25	

1	
2	[C#] public virtual void TrimToSize();
3	[C++] public: virtual void TrimToSize();
4	[VB] Overridable Public Sub TrimToSize()
5	[JScript] public function TrimToSize();
6	
7	Description
8	Sets the capacity to the actual number of elements in the
9	System.Collections.Queue .
10	This method can be used to minimize a list's memory overhead if no new
11	elements will be added to the list.
12	ReadOnlyCollectionBase class (System.Collections)
13	TrimToSize
14	
15	
16	Description
17	Provides the abstract base class for a strongly typed read-only collection.
18	A System.Collections.ReadOnlyCollectionBase instance is always read-
19	only. See System.Collections.CollectionBase for a modifiable version of this
20	class.
21	ReadOnlyCollectionBase
22	Example Syntax:
23	TrimToSize
24	
25	[C#] protected ReadOnlyCollectionBase();

1	[C++] protected: ReadOnlyCollectionBase();
2	[VB] Protected Sub New()
3	[JScript] protected function ReadOnlyCollectionBase();
4	Count
5	TrimToSize
6	
7	[C#] public int Count {get;}
8	[C++] public:property int get_Count();
9	[VB] Public ReadOnly Property Count As Integer
10	[JScript] public function get Count(): int;
11	
12	Description
13	Gets the number of elements contained in the
14	System.Collections.ReadOnlyCollectionBase instance.
15	InnerList
16	TrimToSize
17	
18	[C#] protected ArrayList InnerList {get;}
19	[C++] protected:property ArrayList* get_InnerList();
20	[VB] Protected ReadOnly Property InnerList As ArrayList
21	[JScript] protected function get InnerList(): ArrayList;
22	
23	Description
24	Gets the list of elements contained in the
25	System.Collections.ReadOnlyCollectionBase instance.

1	GetEnumerator
2	
3	[C#] public IEnumerator GetEnumerator();
4	[C++] public:sealed IEnumerator* GetEnumerator();
5	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
6	[JScript] public function GetEnumerator(): IEnumerator;
7	
8	Description
9	Returns an enumerator that can iterate through the
10	System.Collections.ReadOnlyCollectionBase instance.
11	Return Value: An System.Collections.IEnumerator for the
12	System.Collections.ReadOnlyCollectionBase instance.
13	Enumerators are intended to be used only to read data in the collection.
14	Enumerators cannot be used to modify the underlying collection.
15	ICollection.CopyTo
16	
17	[C#] void ICollection.CopyTo(Array array, int index);
18	[C++] void ICollection::CopyTo(Array* array, int index);
10	[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer) Implement

Description

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Represents a collection of key-and-value pairs that are sorted by the keys and are accessible by key and by index.

A System.Collections.SortedList is a hybrid between a System.Collections.Hashtable and an System.Array . When an element is accessed by its key using the

System.Collections.SortedList.Item(System.Object) indexer property, it behaves like a System.Collections.Hashtable . When an element is accessed by its index using System.Collections.SortedList.GetByIndex(System.Int32) or System.Collections.SortedList.SetByIndex(System.Int32,System.Object), it behaves like an System.Array .

SortedList

Example Syntax:

ToString

[C#] public SortedList();

[C++] public: SortedList();

[VB] Public Sub New()

[JScript] public function SortedList(); Initializes a new instance of the

System.Collections.SortedList class.

Description

Initializes a new instance of the **System.Collections.SortedList** class that is empty, has the default initial capacity and is sorted according to the **System.IComparable** interface implemented by each key added to the **System.Collections.SortedList**.

The initial capacity is the starting capacity of the new System.Collections.SortedList. The default initial capacity for a System.Collections.SortedList is 16.

SortedList

Example Syntax:

ToString

[C#] public SortedList(IComparer comparer);

[C++] public: SortedList(IComparer* comparer);

[VB] Public Sub New(ByVal comparer As IComparer)

[JScript] public function SortedList(comparer : IComparer);

Description

Initializes a new instance of the **System.Collections.SortedList** class that is empty, has the default initial capacity and is sorted according to the specified **System.Collections.IComparer** interface.

The initial capacity is the starting capacity of the new

System.Collections.SortedList. The default initial capacity for a

System.Collections.SortedList is 16. The System.Collections.IComparer implementation to use when comparing keys.

SortedList

1	Example Syntax:
2	ToString
3	
4	[C#] public SortedList(IDictionary d);
5	[C++] public: SortedList(IDictionary* d);
6	[VB] Public Sub New(ByVal d As IDictionary)
7	[JScript] public function SortedList(d : IDictionary);
8	
9	Description
10	Initializes a new instance of the System.Collections.SortedList class that
11	contains elements copied from the specified dictionary, has the same initial
12	capacity as the number of elements copied and is sorted according to the
13	System.IComparable interface implemented by each key.
14	The initial capacity is the starting capacity of the new
15	System.Collections.SortedList. When adding elements to the list, if the number
16	of elements exceeds the current capacity, the capacity is automatically doubled.
17	The System.Collections.IDictionary to copy to a new
18	System.Collections.SortedList.
19	SortedList
20	Example Syntax:
21	ToString
22	
23	[C#] public SortedList(int initialCapacity);
24	[C++] public: SortedList(int initialCapacity);
25	[VB] Public Sub New(ByVal initialCapacity As Integer)

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[JScript] public function SortedList(initialCapacity: int); Description Initializes a new instance of the System. Collections. SortedList class that is empty, has the specified initial capacity and is sorted according to the System.IComparable interface implemented by each key added to the System.Collections.SortedList. The initial capacity is the starting capacity of the new System.Collections.SortedList. The default initial capacity for a System.Collections.SortedList is 16. The initial number of elements that the System.Collections.SortedList can contain. SortedList Example Syntax: **ToString** [C#] public SortedList(IComparer comparer, int capacity); [C++] public: SortedList(IComparer* comparer, int capacity); [VB] Public Sub New(ByVal comparer As IComparer, ByVal capacity As Integer) [JScript] public function SortedList(comparer : IComparer, capacity : int); Description Initializes a new instance of the System. Collections. SortedList class that is empty, has the specified initial capacity and is sorted according to the specified

System.Collections.IComparer interface.

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The initial capacity is the starting capacity of the new System.Collections.SortedList. The default initial capacity for a System.Collections.SortedList is 16. The System.Collections.IComparer implementation to use when comparing keys. The initial number of elements that the System.Collections.SortedList can contain.

SortedList

Example Syntax:

ToString

[C#] public SortedList(IDictionary d, IComparer comparer);

[C++] public: SortedList(IDictionary* d, IComparer* comparer);

[VB] Public Sub New(ByVal d As IDictionary, ByVal comparer As IComparer)

[JScript] public function SortedList(d: IDictionary, comparer: IComparer);

Description

Initializes a new instance of the **System.Collections.SortedList** class that contains elements copied from the specified dictionary, has the same initial capacity as the number of elements copied and is sorted according to the specified **System.Collections.IComparer** interface.

The initial capacity is the starting capacity of the new

System.Collections.SortedList. When adding elements to the list, if the number of elements exceeds the current capacity, the capacity is automatically doubled.

The System.Collections.IDictionary to copy to a new

System.Collections.SortedList. The System.Collections.IComparer

implementation to use when comparing keys.

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1	Capacity
2	ToString
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4	[C#] public virtual int Capacity {get; set;}
5	[C++] public:property virtual int get_Capacity();public:property virtual void
6	set_Capacity(int);
7	[VB] Overridable Public Property Capacity As Integer
8	[JScript] public function get Capacity(): int;public function set Capacity(int);
9	
10	Description
11	Gets or sets the capacity of the System.Collections.SortedList.
12	If the number of elements added to the list reaches the current capacity, the
13	capacity is automatically doubled.
14	Count
15	ToString
16	
17	[C#] public virtual int Count {get;}
18	[C++] public:property virtual int get_Count();
19	[VB] Overridable Public ReadOnly Property Count As Integer
20	[JScript] public function get Count(): int;
21	
22	Description
23	Gets the number of elements contained in the
24	System.Collections.SortedList.
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1	Each element is a key-and-value pair that can be accessed as a
2	System.Collections.DictionaryEntry object.
3	IsFixedSize
4	ToString
5	
6	[C#] public virtual bool IsFixedSize {get;}
7	[C++] public:property virtual bool get_IsFixedSize();
8	[VB] Overridable Public ReadOnly Property IsFixedSize As Boolean
9	[JScript] public function get IsFixedSize() : Boolean;
10	
11	Description
12	Gets a value indicating whether the System.Collections.SortedList has a
13	fixed size.
14	A collection with a fixed size does not allow the addition or removal of
15	elements, but it allows the modification of existing elements.
16	IsReadOnly
17	ToString
18	
19	[C#] public virtual bool IsReadOnly {get;}
20	[C++] public:property virtual bool get_IsReadOnly();
21	[VB] Overridable Public ReadOnly Property IsReadOnly As Boolean
22	[JScript] public function get IsReadOnly(): Boolean;
23	
24	Description
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1	Gets a value indicating whether the System.Collections.SortedList is read
2	only.
3	IsSynchronized
4	ToString
5	
6	[C#] public virtual bool IsSynchronized {get;}
7	[C++] public:property virtual bool get_IsSynchronized();
8	[VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
9	[JScript] public function get IsSynchronized(): Boolean;
10	
11	Description
12	Gets a value indicating whether access to the
13	System.Collections.SortedList is synchronized (thread-safe).
14	To guarantee the thread safety of the System.Collections.SortedList, all
15	operations must be done through the wrapper returned by the
16	System.Collections.SortedList.Synchronized(System.Collections.SortedList)
17	method.
18	Item
19	ToString
20	
21	[C#] public virtual object this[object key] {get; set;}
22	[C++] public:property virtual Object* get_Item(Object* key);public:
23	property virtual void set_Item(Object* key, Object*);
24	[VB] Overridable Public Default Property Item(ByVal key As Object) As Object
25	[JScript] returnValue = SortedListObject.Item(key);SortedListObject.Item(key) =

makanna Valaras
returnValue;
Description
Gets and sets the value associated with a specific key in the
System.Collections.SortedList.
If setting the value of key and key does not exist in the
System.Collections.SortedList, a new element is created with the specified key
and the specified value. The key associated with the value to get or set.
Keys
ToString
[C#] public virtual ICollection Keys {get;}
[C++] public:property virtual ICollection* get_Keys();
[VB] Overridable Public ReadOnly Property Keys As ICollection
[JScript] public function get Keys(): ICollection;
Description
Gets the keys in the System.Collections.SortedList.
The System.Collections.ICollection is a read-only view of the keys of the
System.Collections.SortedList . Modifications made to the underlying
System.Collections.SortedList are immediately reflected in the
System.Collections.ICollection .
SyncRoot
ToString

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2	[C#] public virtual object SyncRoot {get;}
3	[C++] public:property virtual Object* get_SyncRoot();
4	[VB] Overridable Public ReadOnly Property SyncRoot As Object
5	[JScript] public function get SyncRoot(): Object;
6	
7	Description
8	Gets an object that can be used to synchronize access to the
9	System.Collections.SortedList.
10	To create a synchronized version of the System. Collections. Sorted List,
11	use the
12	System.Collections.SortedList.Synchronized(System.Collections.SortedList)
13	method. However, derived classes can provide their own synchronized version of
14	the System.Collections.SortedList using the
15	System.Collections.SortedList.SyncRoot property. The synchronizing code must
16	perform operations on the System.Collections.SortedList.SyncRoot of the
17	System.Collections.SortedList, not directly on the
18	System.Collections.SortedList. This ensures proper operation of collections that
19	are derived from other objects. Specifically, it maintains proper synchronization
20	with other threads that might be simultaneously modifying the
21	System.Collections.SortedList object.
22	Values
23	ToString
24	
25	[C#] public virtual ICollection Values {get;}

[C++] public: __property virtual ICollection* get_Values(); [VB] Overridable Public ReadOnly Property Values As ICollection 2 [JScript] public function get Values(): ICollection; 3 4 Description 5 Gets the values in the System.Collections.SortedList. 6 The System.Collections.ICollection is a read-only view of the values of 7 the ${\bf System. Collections. SortedList}$. Modifications made to the underlying 8 System.Collections.SortedList are immediately reflected in the 9 **System.Collections.ICollection** . 10 Add 11 12 [C#] public virtual void Add(object key, object value); 13 [C++] public: virtual void Add(Object* key, Object* value); 14 [VB] Overridable Public Sub Add(ByVal key As Object, ByVal value As Object) 15 [JScript] public function Add(key: Object, value: Object); 17

Description

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Adds an element with the specified key and value to the System.Collections.SortedList.

If the number of elements added to the list reaches the current capacity, the capacity is automatically doubled. The insertion point is determined based on the comparer selected, either explicitly or by default when the **System.Collections.SortedList** was created. The key of the element to add. The value of the element to add.

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3	[C#] public virtual void Clear();
4	[C++] public: virtual void Clear();
5	[VB] Overridable Public Sub Clear()
6	[JScript] public function Clear();
7	
8	Description
9	Removes all elements from the System.Collections.SortedList.
10	System.Collections.SortedList.Count is set to zero.
11	Clone
12	-
13	[C#] public virtual object Clone();
14	[C++] public: virtual Object* Clone();
15	[VB] Overridable Public Function Clone() As Object
16	[JScript] public function Clone() : Object;
17	
18	Description
19	Creates a shallow copy of the System.Collections.SortedList.
20	Return Value: A shallow copy of the System.Collections.SortedList.

Clear

A shallow copy of a collection is a new collection containing references to the same elements as the original collection. The elements themselves or anything referenced by the elements are not copied. In contrast, a deep copy of a collection copies the elements and everything directly or indirectly referenced by the elements.

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[C#] public virtual bool Contains(object key);

[C++] public: virtual bool Contains(Object* key);

[VB] Overridable Public Function Contains(ByVal key As Object) As Boolean [JScript] public function Contains(key: Object): Boolean;

Description

Determines whether the **System.Collections.SortedList** contains a specific key.

Return Value: true if the System.Collections.SortedList contains an element with the specified key; otherwise, false.

The elements of a **System.Collections.SortedList** are sorted by the keys either according to a specific **System.Collections.IComparer** implementation specified when the **System.Collections.SortedList** is created or according to the **System.IComparable** implementation provided by the keys themselves. The key to locate in the **System.Collections.SortedList**.

ContainsKey

[C#] public virtual bool ContainsKey(object key);

[C++] public: virtual bool ContainsKey(Object* key);

[VB] Overridable Public Function ContainsKey(ByVal key As Object) As

Boolean

[JScript] public function ContainsKey(key: Object): Boolean;

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Description

Determines whether the **System.Collections.SortedList** contains a specific

Return Value: true if the System.Collections.SortedList contains an element with the specified key; otherwise, false.

The elements of a **System.Collections.SortedList** are sorted by the keys either according to a specific **System.Collections.IComparer** implementation specified when the **System.Collections.SortedList** is created or according to the **System.IComparable** implementation provided by the keys themselves. The key to locate in the **System.Collections.SortedList**.

ContainsValue

[C#] public virtual bool ContainsValue(object value);

[C++] public: virtual bool ContainsValue(Object* value);

[VB] Overridable Public Function ContainsValue(ByVal value As Object) As Boolean

[JScript] public function ContainsValue(value : Object) : Boolean;

Description

Determines whether the **System.Collections.SortedList** contains a specific value.

Return Value: true if the System.Collections.SortedList contains an element with the specified value; otherwise, false.

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This method performs a linear search; therefore, the average execution time is proportional to System.Collections.SortedList.Count . That is, this method is an O(n) operation, where n is System.Collections.SortedList.Count. The value to locate in the System.Collections.SortedList. CopyTo [C#] public virtual void CopyTo(Array array, int arrayIndex); [C++] public: virtual void CopyTo(Array* array, int arrayIndex); [VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal arrayIndex As Integer) [JScript] public function CopyTo(array: Array, arrayIndex: int); Description Copies the System.Collections.SortedList elements to a one-dimensional System.Array instance at the specified index. The key-and-value pairs are copied to the System.Array in the same order in which the enumerator iterates through the System.Collections.SortedList . The one-dimensional System. Array that is the destination of the System.Collections.DictionaryEntry objects copied from System.Collections.SortedList. The System.Array must have zero-based indexing. The zero-based index in array at which copying begins. GetByIndex

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[C#] public virtual object GetByIndex(int index);

[C++] public: virtual Object* GetByIndex(int index);

[VB] Overridable Public Function GetByIndex(ByVal index As Integer) As Object

[JScript] public function GetByIndex(index: int): Object;

Description

Gets the value at the specified index of the System.Collections.SortedList

Return Value: The value at the specified index of the

System.Collections.SortedList.

The index sequence is based on the sort sequence. When an element is added, it is inserted into **System.Collections.SortedList** in the correct sort order, and the indexing adjusts accordingly. When an element removed, the indexing also adjusts accordingly. Therefore, the index of a specific key-and-value pair might change as elements are added or removed from the

 ${\bf System. Collections. SortedList}$. The zero-based index of the value to get.

GetEnumerator

[C#] public virtual IDictionaryEnumerator GetEnumerator();

[C++] public: virtual IDictionaryEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IDictionaryEnumerator

[JScript] public function GetEnumerator(): IDictionaryEnumerator;

Description

Returns an enumerator that can iterate through the

System. Collections. Sorted List.

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Return Value: An System.Collections.IDictionaryEnumerator for the System.Collections.SortedList .

Enumerators are intended to be used only to read data in the collection.

Enumerators cannot be used to modify the underlying collection.

GetKey

[C#] public virtual object GetKey(int index);

[C++] public: virtual Object* GetKey(int index);

[VB] Overridable Public Function GetKey(ByVal index As Integer) As Object [JScript] public function GetKey(index : int) : Object;

Description

Gets the key at the specified index of the **System.Collections.SortedList** .

Return Value: The key at the specified index of the **System.Collections.SortedList** .

The index sequence is based on the sort sequence. When an element is added, it is inserted into **System.Collections.SortedList** in the correct sort order, and the indexing adjusts accordingly. When an element removed, the indexing also adjusts accordingly. Therefore, the index of a specific key-and-value pair might change as elements are added or removed from the

 ${\bf System. Collections. SortedList}$. The zero-based index of the key to get.

GetKeyList

[C#] public virtual IList GetKeyList();

[C++] public: virtual IList* GetKeyList();

1	[VB] Overridable Public Function GetKeyList() As IList
2	[JScript] public function GetKeyList(): IList;
3	
4	Description
5	Gets the keys in the System.Collections.SortedList.
6	Return Value: An System.Collections.IList containing the keys in the
7	System.Collections.SortedList .
8	The returned System.Collections.IList is a read-only view of the keys of
9	the System.Collections.SortedList . Modifications made to the underlying
10	System.Collections.SortedList are immediately reflected in the
11	System.Collections.IList .
12	GetValueList
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14	[C#] public virtual IList GetValueList();
15	[C++] public: virtual IList* GetValueList();
16	[VB] Overridable Public Function GetValueList() As IList
17	[JScript] public function GetValueList(): IList;
18	
19	Description
20	Gets the values in the System.Collections.SortedList.
21	Return Value: An System.Collections.IList containing the values in the
22	System.Collections.SortedList .
23	The returned System.Collections.IList is a read-only view of the values of
24	the System.Collections.SortedList. Modifications made to the underlying
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System.Collections.SortedList are immediately reflected in the System.Collections.IList .

IndexOfKey

[C#] public virtual int IndexOfKey(object key);

[C++] public: virtual int IndexOfKey(Object* key);

[VB] Overridable Public Function IndexOfKey(ByVal key As Object) As Integer [JScript] public function IndexOfKey(key: Object): int;

Description

Returns the zero-based index of the specified key in the System.Collections.SortedList.

Return Value: The zero-based index of key, if key is found in the System.Collections.SortedList; otherwise, -1.

The elements of a **System.Collections.SortedList** are sorted by the keys either according to a specific **System.Collections.IComparer** implementation specified when the **System.Collections.SortedList** is created or according to the **System.IComparable** implementation provided by the keys themselves. The key to locate in the **System.Collections.SortedList**.

IndexOfValue

[C#] public virtual int IndexOfValue(object value);

[C++] public: virtual int IndexOfValue(Object* value);

[VB] Overridable Public Function IndexOfValue(ByVal value As Object) As Integer

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[JScript] public function IndexOfValue(value : Object) : int; Description Returns the zero-based index of the first occurrence of the specified value in the System.Collections.SortedList. Return Value: The zero-based index of the first occurrence of value, if value is found in the System.Collections.SortedList; otherwise, -1. The index sequence is based on the sort sequence. When an element is added, it is inserted into System. Collections. SortedList in the correct sort order, and the indexing adjusts accordingly. When an element removed, the indexing also adjusts accordingly. Therefore, the index of a specific key-and-value pair might change as elements are added or removed from the System.Collections.SortedList . The value to locate in the System.Collections.SortedList. Remove [C#] public virtual void Remove(object key); [C++] public: virtual void Remove(Object* key); [VB] Overridable Public Sub Remove(ByVal key As Object) [JScript] public function Remove(key: Object); Description Removes the element with the specified key from System.Collections.SortedList.

If the System. Collections. Sorted List does not contain an element with the specified key, the System. Collections. Sorted List remains unchanged. No exception is thrown. The key of the element to remove.

RemoveAt

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[C#] public virtual void RemoveAt(int index);

[C++] public: virtual void RemoveAt(int index);

[VB] Overridable Public Sub RemoveAt(ByVal index As Integer)

[JScript] public function RemoveAt(index : int);

Description

Removes the element at the specified index of System.Collections.SortedList.

The index sequence is based on the sort sequence. When an element is added, it is inserted into System. Collections. SortedList in the correct sort order, and the indexing adjusts accordingly. When an element removed, the indexing also adjusts accordingly. Therefore, the index of a specific key-and-value pair might change as elements are added or removed from the

System.Collections.SortedList . The zero-based index of the element to remove.

SetByIndex

[C#] public virtual void SetByIndex(int index, object value);

[C++] public: virtual void SetByIndex(int index, Object* value);

[VB] Overridable Public Sub SetByIndex(ByVal index As Integer, ByVal value As Object)

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[JScript] public function SetByIndex(index : int, value : Object);

Description

Replaces the value at a specific index in the System.Collections.SortedList.

The index sequence is based on the sort sequence. When an element is added, it is inserted into **System.Collections.SortedList** in the correct sort order, and the indexing adjusts accordingly. When an element removed, the indexing also adjusts accordingly. Therefore, the index of a specific key-and-value pair might change as elements are added or removed from the

System.Collections.SortedList. The zero-based index at which to save value.

The System.Object to save into the System.Collections.SortedList.

Synchronized

[C#] public static SortedList Synchronized(SortedList list);

[C++] public: static SortedList* Synchronized(SortedList* list);

[VB] Public Shared Function Synchronized(ByVal list As SortedList) As

SortedList

[JScript] public static function Synchronized(list: SortedList): SortedList;

Description

Returns a synchronized (thread-safe) wrapper for the

System. Collections. Sorted List.

Return Value: A synchronized (thread-safe) wrapper for the

 ${\bf System. Collections. Sorted List}\ .$

1	To guarantee the thread safety of the System.Collections.SortedList, all
2	operations must be done through this wrapper only. The
3	System.Collections.SortedList to synchronize.
4	IEnumerable.GetEnumerator
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6	[C#] IEnumerator IEnumerable.GetEnumerator();
7	[C++] IEnumerator* IEnumerable::GetEnumerator();
8	[VB] Function GetEnumerator() As IEnumerator Implements
9	IEnumerable.GetEnumerator
10	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
11	TrimToSize
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13	[C#] public virtual void TrimToSize();
14	[C++] public: virtual void TrimToSize();
15	[VB] Overridable Public Sub TrimToSize()
16	[JScript] public function TrimToSize();
17	
18	Description
19	Sets the capacity to the actual number of elements in the
20	System.Collections.SortedList.
21	This method can be used to minimize a list's memory overhead if no new
22	elements will be added to the list.
23	Stack class (System.Collections)
24	TrimToSize
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3	Description
4	Represents a simple last-in-first-out collection of objects.
5	System.Collections.Stack is implemented as a circular buffer.
6	Stack
7	Example Syntax:
8	TrimToSize
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10	[C#] public Stack();
11	[C++] public: Stack();
12	[VB] Public Sub New()
13	[JScript] public function Stack(); Initializes a new instance of the
14	System.Collections.Stack class.
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16	Description
17	Initializes a new instance of the System.Collections.Stack class that is
18	empty and has the default initial capacity.
19	The initial capacity is the starting capacity of the new
20	System.Collections.Stack. The default initial capacity for a
21	System.Collections.Stack is 10.
22	Stack
23	Example Syntax:
24	TrimToSize
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   [C#] public Stack(ICollection col);
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   [C++] public: Stack(ICollection* col);
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    [VB] Public Sub New(ByVal col As ICollection)
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    [JScript] public function Stack(col: ICollection);
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    Description
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           Initializes a new instance of the System.Collections.Stack class that
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    contains elements copied from the specified collection and has the same initial
    capacity as the number of elements copied.
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           The initial capacity is the starting capacity of the new
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    {\bf System. Collections. Stack} . If the number of elements added to the stack reaches
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    the current capacity, the capacity is automatically doubled. The
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    System.Collections.ICollection to copy elements from.
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           Stack
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           Example Syntax:
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           TrimToSize
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    [C#] public Stack(int initialCapacity);
19
    [C++] public: Stack(int initialCapacity);
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     [VB] Public Sub New(ByVal initialCapacity As Integer)
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     [JScript] public function Stack(initialCapacity: int);
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     Description
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Initializes a new instance of the System.Collections.Stack class that is empty and has the specified initial capacity or the default initial capacity, whichever is greater. The initial capacity is the starting capacity of the new System.Collections.Stack. The default initial capacity for a System.Collections.Stack is 10. The initial number of elements that the System.Collections.Stack can contain. Count **TrimToSize** [C#] public virtual int Count {get;} [C++] public: __property virtual int get_Count(); [VB] Overridable Public ReadOnly Property Count As Integer [JScript] public function get Count(): int; Description Gets the number of elements contained in the System. Collections. Stack. IsSynchronized **TrimToSize** [C#] public virtual bool IsSynchronized {get;} [C++] public: __property virtual bool get_IsSynchronized(); [VB] Overridable Public ReadOnly Property IsSynchronized As Boolean [JScript] public function get IsSynchronized(): Boolean;

Description

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Gets a value indicating whether access to the **System.Collections.Stack** is synchronized (thread-safe).

To guarantee the thread safety of the **System.Collections.Stack**, all operations must be done through the wrapper returned by the

System.Collections.Stack.Synchronized(System.Collections.Stack) method.

SyncRoot

TrimToSize

[C#] public virtual object SyncRoot {get;}

[C++] public: __property virtual Object* get_SyncRoot();

[VB] Overridable Public ReadOnly Property SyncRoot As Object

[JScript] public function get SyncRoot(): Object;

Description

Gets an object that can be used to synchronize access to the System.Collections.Stack.

To create a synchronized version of the System.Collections.Stack, use the System.Collections.Stack.Synchronized(System.Collections.Stack) method. However, derived classes can provide their own synchronized version of the System.Collections.Stack using the System.Collections.Stack.SyncRoot property. The synchronizing code must perform operations on the System.Collections.Stack.SyncRoot of the System.Collections.Stack, not directly on the System.Collections.Stack. This ensures proper operation of

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collections that are derived from other objects. Specifically, it maintains proper synchronization with other threads that might be simultaneously modifying the **System.Collections.Stack** object.

Clear

[C#] public virtual void Clear();

[C++] public: virtual void Clear();

[VB] Overridable Public Sub Clear()

[JScript] public function Clear();

Description

Removes all objects from the System.Collections.Stack .

System.Collections.Stack.Count is set to zero.

Clone

[C#] public virtual object Clone();

[C++] public: virtual Object* Clone();

[VB] Overridable Public Function Clone() As Object

[JScript] public function Clone(): Object;

Description

Creates a shallow copy of the System.Collections.Stack .

Return Value: A shallow copy of the System.Collections.Stack.

A shallow copy of a collection is a new collection containing references to the same elements as the original collection. The elements themselves or anything

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referenced by the elements are not copied. In contrast, a deep copy of a collection copies the elements and everything directly or indirectly referenced by the elements.

Contains

[C#] public virtual bool Contains(object obj);

[C++] public: virtual bool Contains(Object* obj);

[VB] Overridable Public Function Contains(ByVal obj As Object) As Boolean

[JScript] public function Contains(obj : Object) : Boolean;

Description

Determines whether an element is in the **System.Collections.Stack**.

Return Value: true if obj is found in the **System.Collections.Stack**; otherwise, false.

This method performs a linear search; therefore, the average execution time is proportional to System.Collections.Stack.Count. That is, this method is an O(n) operation, where n is System.Collections.Stack.Count. The System.Object to locate in the System.Collections.Stack. The element to locate can be null.

СоруТо

[C#] public virtual void CopyTo(Array array, int index);

[C++] public: virtual void CopyTo(Array* array, int index);

[VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal index As

Integer)

[JScript] public function CopyTo(array: Array, index: int);

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Description

Copies the **System.Collections.Stack** to an existing one-dimensional **System.Array**, starting at the specified array index.

the order of the elements returned by a succession of calls to System.Collections.Stack.Pop. The one-dimensional System.Array that is the destination of the elements copied from System.Collections.Stack. The System.Array must have zero-based indexing. The zero-based index in array at which copying begins.

The elements are copied onto the array in a last-in-first-out order, similar to

GetEnumerator

[C#] public virtual IEnumerator GetEnumerator();

[C++] public: virtual IEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator;

Description

 $\label{lem:collections} Returns \ an \ \mbox{\bf System.Collections.} \ \mbox{\bf IEnumerator} \ \ for \ the \\ \mbox{\bf System.Collections.} \ \mbox{\bf Stack} \ .$

Return Value: An System.Collections.IEnumerator for the

System.Collections.Stack.

Enumerators are intended to be used only to read data in the collection.

Enumerators cannot be used to modify the underlying collection.

Peek

1	
2	[C#] public virtual object Peek();
3	[C++] public: virtual Object* Peek();
4	[VB] Overridable Public Function Peek() As Object
5	[JScript] public function Peek(): Object;
6	
7	Description
8	Returns the object at the top of the System.Collections.Stack without
9	removing it.
10	Return Value: The System.Object at the top of the System.Collections.Stack.
11	null can be pushed onto the System.Collections.Stack as a placeholder, if
12	needed. To distinguish between a null value and the end of the stack, check the
13	System.Collections.Stack.Count property or catch the
14	System.InvalidOperationException, which is thrown when the
15	System.Collections.Stack is empty.
16	Pop
17	
18	[C#] public virtual object Pop();
19	[C++] public: virtual Object* Pop();
20	[VB] Overridable Public Function Pop() As Object
21	[JScript] public function Pop(): Object;
22	
23	Description
24	Removes and returns the object at the top of the System.Collections.Stack
25	

1	Return Value: The System.Object removed from the top of the
2	System.Collections.Stack.
3	System.Collections.Stack is implemented as a circular buffer.
4	Push
5	
6	[C#] public virtual void Push(object obj);
7	[C++] public: virtual void Push(Object* obj);
8	[VB] Overridable Public Sub Push(ByVal obj As Object)
9	[JScript] public function Push(obj : Object);
10	
11	Description
12	Inserts an object at the top of the System.Collections.Stack.
13	System.Collections.Stack is implemented as a circular buffer. The
14	System.Object to push onto the System.Collections.Stack.
15	Synchronized
16	
17	[C#] public static Stack Synchronized(Stack stack);
18	[C++] public: static Stack* Synchronized(Stack* stack);
19	[VB] Public Shared Function Synchronized(ByVal stack As Stack) As Stack
20	[JScript] public static function Synchronized(stack : Stack) : Stack;
21	
22	Description
23	Returns a synchronized (thread-safe) wrapper for the
24	System.Collections.Stack.
25	Return Value: A synchronized wrapper around the System.Collections.Stack.

To guarantee the thread safety of the **System.Collections.Stack**, all operations must be done through this wrapper. The **System.Collections.Stack** to synchronize.

ToArray

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[C#] public virtual object[] ToArray();

[C++] public: virtual Object* ToArray() __gc[];

[VB] Overridable Public Function ToArray() As Object()

[JScript] public function ToArray(): Object[];

Description

Copies the System.Collections.Stack to a new array.

Return Value: A new array containing copies of the elements of the

System.Collections.Stack .

The elements are copied onto the array in a last-in-first-out order, similar to the order

System.Collections.Specialized

The namespace contains specialized and strongly-typed collections; for example, a linked list dictionary, a bit vector and collections that contain only strings.

Description

The **System.Collections.Specialized** namespace contains specialized and strongly-typed collections; for example, a linked list dictionary, a bit vector and collections that contain only strings.

1	BitVector32 structure (System.Collections.Specialized)
2	
3	
4	Description
5	Provides a simple structure that stores Boolean values and small integers in
6	32 bits of memory.
7	System.Collections.Specialized.BitVector32 is more efficient than
8	System.Collections.BitArray for Boolean values and small integers that are used
9	internally.
10	Constructors:
11	BitVector32
12	Example Syntax:
13	
14	[C#] public BitVector32(BitVector32 value);
15	[C++] public: BitVector32(BitVector32 value);
16	[VB] Public Sub New(ByVal value As BitVector32)
17	[JScript] public function BitVector32(value : BitVector32);
18	
19	Description
20	Initializes a new instance of the
21	System.Collections.Specialized.BitVector32 structure containing the data
22	represented in an existing System.Collections.Specialized.BitVector32 structure.
23	A System.Collections.Specialized.BitVector32 structure that contains the data to
24	сору.
25	BitVector32

1	Example Syntax:
2	
3	[C#] public BitVector32(int data);
4	[C++] public: BitVector32(int data);
5	[VB] Public Sub New(ByVal data As Integer)
6	[JScript] public function BitVector32(data: int); Initializes a new instance of the
7	System.Collections.Specialized.BitVector32 structure.
8	
9	Description
10	Initializes a new instance of the
11	System.Collections.Specialized.BitVector32 structure containing the data
12	represented in an integer. An integer representing the data of the new
13	System.Collections.Specialized.BitVector32.
14	Properties:
15	Data
16	
17	[C#] public int Data {get;}
18	[C++] public:property int get_Data();
19	[VB] Public ReadOnly Property Data As Integer
20	[JScript] public function get Data(): int;
21	
22	Description
23	Gets the value of the System.Collections.Specialized.BitVector32 as ar
24	integer.
25	

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To access the value of the individual sections or bit flags, use the
System.Collections.Specialized.BitVector32.Item(System.Int32) property.
Item
[C#] public int this[BitVector32.Section section] {get; set;}
[C++] public:property int get_Item(BitVector32.Section section);public:
property void set_Item(BitVector32.Section section, int);
[VB] Public Default Property Item(ByVal section As BitVector32.Section) As
Integer
[JScript] returnValue =
BitVector32Object.Item(section);BitVector32Object.Item(section) = returnValue;
Description
Gets or sets the value stored in the specified
System.Collections.Specialized.BitVector32.Section .
System.Collections.Specialized.BitVector32.Item(System.Int32)
[Section] property is the indexer for a
System.Collections.Specialized.BitVector32 that is set up as sections, and
System.Collections.Specialized.BitVector32.Item(System.Int32) [int] property
is the indexer for a System. Collections. Specialized. Bit Vector 32 that is set up as
bit flags. A System.Collections.Specialized.BitVector32.Section that contains
the value to get or set.
Item
[C#] public bool this[int bit] {get; set;}

1	[C++] public:property bool get_Item(int bit);public:property void
2	set_Item(int bit, bool);
3	[VB] Public Default Property Item(ByVal bit As Integer) As Boolean
4	[JScript] returnValue = BitVector32Object.Item(bit);BitVector32Object.Item(bit)
5	= returnValue; Gets or sets the value of the specified section or bit flag.
6	
7	Description
8	Gets or sets the state of the bit flag indicated by the specified mask.
9	System.Collections.Specialized.BitVector32.Item(System.Int32)
10	[Section] property is the indexer for a
11	System.Collections.Specialized.BitVector32 that is set up as sections, and
12	System.Collections.Specialized.BitVector32.Item(System.Int32) [int] property
13	is the indexer for a System.Collections.Specialized.BitVector32 that is set up as
14	bit flags. A mask that indicates the bit to get or set.
15	Methods:
16	CreateMask
17	
18	[C#] public static int CreateMask();
19	[C++] public: static int CreateMask();
20	[VB] Public Shared Function CreateMask() As Integer
21	[JScript] public static function CreateMask(): int; Creates a series of masks that
22	can be used to access individual bits in a
23	System.Collections.Specialized.BitVector32 that is set up as bit flags.
24	
25	Description

Creates the first mask in a series of masks that can be used to access individual bits in a System. Collections. Specialized. Bit Vector 32 that is set up as

Return Value: A mask that isolates the first bit flag in the

System.Collections.Specialized.BitVector32.

Use CreateMask() to create the first mask in a series and CreateMask(int)

[C#] public static int CreateMask(int previous);

[C++] public: static int CreateMask(int previous);

[VB] Public Shared Function CreateMask(ByVal previous As Integer) As Integer [JScript] public static function CreateMask(previous : int) : int;

Creates the mask following the specified mask in a series of masks that can be used to access individual bits in a

System.Collections.Specialized.BitVector32 that is set up as bit flags.

Return Value: A mask that isolates the bit flag following the one that previous points to in System.Collections.Specialized.BitVector32.

Use CreateMask() to create the first mask in a series and CreateMask(int) for all subsequent masks. The mask that indicates the previous bit flag.

[C#] public static Section CreateSection(short maxValue);

[C++] public: static Section CreateSection(short maxValue);[VB] Public Shared Function CreateSection(ByVal maxValue As Short) AsSection

[JScript] public static function CreateSection(maxValue : Int16) : Section; Creates a series of sections that contain small integers.

Description

Creates the first **System.Collections.Specialized.BitVector32.Section** in a series of sections that contain small integers.

Return Value: A System.Collections.Specialized.BitVector32.Section that can hold a number from zero to maxValue.

A System.Collections.Specialized.BitVector32.Section is a window into the System.Collections.Specialized.BitVector32 and is composed of the smallest number of consecutive bits that can contain the maximum value specified in System.Collections.Specialized.BitVector32.CreateSection(System.Int16). For example, a section with a maximum value of 1 is composed of only one bit, whereas a section with a maximum value of 5 is composed of three bits. You can create a System.Collections.Specialized.BitVector32.Section with a maximum value of 1 to serve as a Boolean, thereby allowing you to store integers and Booleans in the same System.Collections.Specialized.BitVector32. A 16-bit signed integer that specifies the maximum value for the new System.Collections.Specialized.BitVector32.Section.

CreateSection

[C#] public static Section CreateSection(short maxValue, BitVector32.Section

previous);

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[C++] public: static Section CreateSection(short maxValue, BitVector32.Section previous);

[VB] Public Shared Function CreateSection(ByVal maxValue As Short, ByVal previous As BitVector32.Section) As Section

[JScript] public static function CreateSection(maxValue : Int16, previous :

BitVector32.Section): Section;

Description

Creates a new System.Collections.Specialized.BitVector32.Section following the specified System.Collections.Specialized.BitVector32.Section in a series of sections that contain small integers.

Return Value: A System.Collections.Specialized.BitVector32.Section that can hold a number from zero to maxValue.

A System.Collections.Specialized.BitVector32.Section is a window into the System.Collections.Specialized.BitVector32 and is composed of the smallest number of consecutive bits that can contain the maximum value specified in System.Collections.Specialized.BitVector32.CreateSection(System.Int16). For example, a section with a maximum value of 1 is composed of only one bit, whereas a section with a maximum value of 5 is composed of three bits. You can create a System.Collections.Specialized.BitVector32.Section with a maximum value of 1 to serve as a Boolean, thereby allowing you to store integers and Booleans in the same System.Collections.Specialized.BitVector32. A 16-bit signed integer that specifies the maximum value for the new

System.Collections.Specialized.BitVector32.Section. The previous

System.Collections.Specialized.BitVector32.Section in the 1 System.Collections.Specialized.BitVector32. 2 Equals 3 [C#] public override bool Equals(object o); 5 [C++] public: bool Equals(Object* o); 6 [VB] Overrides Public Function Equals(ByVal o As Object) As Boolean 7 [JScript] public override function Equals(o: Object): Boolean; 9 Description 10 Determines whether the specified object is equal to the 11 System.Collections.Specialized.BitVector32. 12 Return Value: true if the specified System.Object is equal to the 13 System.Collections.Specialized.BitVector32; otherwise, false. 14 The object o is considered equal to the 15 System.Collections.Specialized.BitVector32 if the type of o is compatible with the System.Collections.Specialized.BitVector32 type and if the value of o is 17 equal to the value of System.Collections.Specialized.BitVector32.Data . The 18 System. Object to compare with the current 19 System.Collections.Specialized.BitVector32. 20 GetHashCode 21 22 [C#] public override int GetHashCode(); 23 [C++] public: int GetHashCode();

[VB] Overrides Public Function GetHashCode() As Integer

1	[JScript] public override function GetHashCode(): int;
2	
3	Description
4	Serves as a hash function for the
5	System.Collections.Specialized.BitVector32.
6	Return Value: A hash code for the System.Collections.Specialized.BitVector32.
7	The hash code of a System.Collections.Specialized.BitVector32 is based
8	on the value of System.Collections.Specialized.BitVector32.Data . Two
9	instances of System. Collections. Specialized. Bit Vector 32 with the same value for
10	System.Collections.Specialized.BitVector32.Data will also generate the same
11	hash code.
12	ToString
13	
14	[C#] public override string ToString();
15	[C++] public: String* ToString();
16	[VB] Overrides Public Function ToString() As String
17	[JScript] public override function ToString(): String;
18	
19	Description
20	
21	ToString
22	
23	[C#] public static string ToString(BitVector32 value);
24	[C++] public: static String* ToString(BitVector32 value);
25	[VB] Public Shared Function ToString(ByVal value As BitVector32) As String

1	[JScript] public static function ToString(value : BitVector32) : String;
2	
3	Description
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5	CollectionsUtil class (System.Collections.Specialized)
6	ToString
7	
8	
9	Description
10	Creates collections that ignore the case in strings.
11	These methods generate a case-insensitive instance of the collection using
12	case-insensitive implementations of the hash code provider and the comparer. The
13	resulting instance can be used like any other instances of that class, although it
14	may behave differently.
15	CollectionsUtil
16	Example Syntax:
17	ToString
18	
19	[C#] public CollectionsUtil();
20	[C++] public: CollectionsUtil();
21	[VB] Public Sub New()
22	[JScript] public function CollectionsUtil();
23	CreateCaseInsensitiveHashtable
24	
25	[C#] public static Hashtable CreateCaseInsensitiveHashtable();

[C++] public: static Hashtable* CreateCaseInsensitiveHashtable(); [VB] Public Shared Function CreateCaseInsensitiveHashtable() As Hashtable [JScript] public static function CreateCaseInsensitiveHashtable(): Hashtable; Creates a new instance of the System. Collections. Hashtable class that ignores the case of strings.

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Creates a new case-insensitive instance of the

System. Collections. Hashtable class with the default initial capacity.

Return Value: A new case-insensitive instance of the

System.Collections.Hashtable class with the default initial capacity.

The new System. Collections. Hashtable instance uses the default load $factor, the \ {\bf System. Collections. Case Insensitive Hash Code Provider}\ , \ {\bf and}\ the$ $System. Collections. Case Insensitive Comparer \ .$

CreateCaseInsensitiveHashtable

[C#] public static Hashtable CreateCaseInsensitiveHashtable(IDictionary d); [C++] public: static Hashtable* CreateCaseInsensitiveHashtable(IDictionary* d);

[VB] Public Shared Function CreateCaseInsensitiveHashtable(ByVal d As

IDictionary) As Hashtable

 $[JScript]\ public\ static\ function\ Create Case Insensitive Hash table (d:IDictionary):$

Hashtable;

Description

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Copies the entries from the specified dictionary to a new case-insensitive instance of the **System.Collections.Hashtable** class with the same initial capacity as the number of entries copied.

Return Value: A new case-insensitive instance of the

System.Collections.Hashtable class containing the entries from the specified System.Collections.IDictionary.

The new System.Collections.Hashtable instance uses the default load factor, the System.Collections.CaseInsensitiveHashCodeProvider, and the System.Collections.CaseInsensitiveComparer. The System.Collections.IDictionary to copy to a new case-insensitive System.Collections.Hashtable.

CreateCaseInsensitiveHashtable

[C#] public static Hashtable CreateCaseInsensitiveHashtable(int capacity);

[C++] public: static Hashtable* CreateCaseInsensitiveHashtable(int capacity);

[VB] Public Shared Function CreateCaseInsensitiveHashtable(ByVal capacity As Integer) As Hashtable

[JScript] public static function CreateCaseInsensitiveHashtable(capacity: int):

Hashtable;

Description

Creates a new case-insensitive instance of the

System.Collections.Hashtable class with the specified initial capacity.

Return Value: A new case-insensitive instance of the

System.Collections.Hashtable class with the specified initial capacity.

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The new System.Collections.Hashtable instance uses the default load factor, the System.Collections.CaseInsensitiveHashCodeProvider, and the System.Collections.CaseInsensitiveComparer. The approximate number of entries that the System.Collections.Hashtable can initially contain.

CreateCaseInsensitiveSortedList

[C#] public static SortedList CreateCaseInsensitiveSortedList();

[C++] public: static SortedList* CreateCaseInsensitiveSortedList();

[VB] Public Shared Function CreateCaseInsensitiveSortedList() As SortedList [JScript] public static function CreateCaseInsensitiveSortedList() : SortedList;

Description

Creates a new instance of the **System.Collections.SortedList** class that ignores the case of strings.

Return Value: A new instance of the System.Collections.SortedList class that ignores the case of strings.

The new System.Collections.SortedList instance is sorted according to the System.Collections.CaseInsensitiveComparer.

HybridDictionary class (System.Collections.Specialized)
ToString

Description

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Implements IDictionary by using a

System.Collections.Specialized.ListDictionary while the collection is small, and then switching to a System.Collections.Hashtable when the collection gets large.

This class is recommended for cases where the number of elements in a dictionary is unknown. It takes advantage of the improved performance of a System.Collections.Specialized.ListDictionary with small collections, and offers the flexibility of switching to a System.Collections.Hashtable which handles larger collections better than System.Collections.Specialized.ListDictionary.

HybridDictionary

Example Syntax:

ToString

[C#] public HybridDictionary();

[C++] public: HybridDictionary();

[VB] Public Sub New()

[JScript] public function HybridDictionary(); Initializes a new instance of the System.Collections.Specialized.HybridDictionary class.

Description

Creates an empty case-sensitive

 $System. Collections. Specialized. Hybrid Dictionary \ . \\$

By default, the collection is case-sensitive and uses the key's implementation of **System.Object.GetHashCode** as the hash code provider and the key's implementation of **System.Object.Equals(System.Object)** as the comparer.

1	HybridDictionary
2	Example Syntax:
3	ToString
4	
5	[C#] public HybridDictionary(bool caseInsensitive);
6	[C++] public: HybridDictionary(bool caseInsensitive);
7	[VB] Public Sub New(ByVal caseInsensitive As Boolean)
8	[JScript] public function HybridDictionary(caseInsensitive : Boolean);
9	
10	Description
11	Creates an empty System.Collections.Specialized.HybridDictionary with
12	the specified case-sensitivity.
13	If caseInsensitive is false, the collection uses the key's implementations of
14	System.Object.GetHashCode and System.Object.Equals(System.Object) . If
15	caseInsensitive is true, the collection uses the
16	System.Collections.CaseInsensitiveHashCodeProvider and a private case-
17	insensitive and culture-insensitive implementation of the
18	System.Collections.IComparer interface that only converts the strings to the
19	same case and compares the Unicode values of the characters. A Boolean that
20	denotes whether the System.Collections.Specialized.HybridDictionary is case-
21	insensitive.
22	HybridDictionary
23	Example Syntax:
24	ToString
25	

1	
2	[C#] public HybridDictionary(int initialSize);
3	[C++] public: HybridDictionary(int initialSize);
4	[VB] Public Sub New(ByVal initialSize As Integer)
5	[JScript] public function HybridDictionary(initialSize : int);
6	
7	Description
8	Creates a case-sensitive
9	System.Collections.Specialized.HybridDictionary with the specified initial size.
10	If the initial size of the collection is greater than the optimal size for a
11	System.Collections.Specialized.ListDictionary, the collection is stored in a
12	System.Collections.Hashtable right away to avoid the overhead of copying
13	elements from the System.Collections.Specialized.ListDictionary to the
14	System.Collections.Hashtable. The approximate number of entries that the
15	System.Collections.Specialized.HybridDictionary can initially contain.
16	HybridDictionary
17	Example Syntax:
18	ToString
19	
20	[C#] public HybridDictionary(int initialSize, bool caseInsensitive);
21	[C++] public: HybridDictionary(int initialSize, bool caseInsensitive);
22	[VB] Public Sub New(ByVal initialSize As Integer, ByVal caseInsensitive As
23	Boolean)
24	[JScript] public function HybridDictionary(initialSize : int, caseInsensitive :
25	Boolean);

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eates a System. Collections. Specialized. Hybrid Dictionary with the specified initial size and case-sensitivity.

If the initial size of the collection is greater than the optimal size for a System.Collections.Specialized.ListDictionary, the collection is stored in a System.Collections.Hashtable right away to avoid the overhead of copying elements from the System.Collections.Specialized.ListDictionary to the System.Collections.Hashtable . The approximate number of entries that the System.Collections.Specialized.HybridDictionary can initially contain. A Boolean that denotes whether the

System.Collections.Specialized.HybridDictionary is case-insensitive.

Count

ToString

[C#] public int Count {get;}

[C++] public: property int get_Count();

[VB] Public ReadOnly Property Count As Integer

[JScript] public function get Count(): int;

Description

Gets the number of key-and-value pairs contained in the System.Collections.Specialized.HybridDictionary.

IsFixedSize

ToString

```
[C#] public bool IsFixedSize {get;}
2
    [C++] public: __property bool get_IsFixedSize();
3
    [VB] Public ReadOnly Property IsFixedSize As Boolean
4
    [JScript] public function get IsFixedSize(): Boolean;
5
6
    Description
7
           Gets a value indicating whether the
8
    System.Collections.Specialized.HybridDictionary has a fixed size.
           System.Collections.Specialized.HybridDictionary implements the
10
    System.Collections.Specialized.HybridDictionary.IsFixedSize property because
11
    it is required by the interface.
12
           IsReadOnly
13
           ToString
14
15
    [C#] public bool IsReadOnly {get;}
    [C++] public: __property bool get_IsReadOnly();
17
    [VB] Public ReadOnly Property IsReadOnly As Boolean
18
    [JScript] public function get IsReadOnly(): Boolean;
19
20
    Description
21
           Gets a value indicating whether the
22
    {\bf System. Collections. Specialized. Hybrid Dictionary} \ is \ read-only.
23
24
25
```

1	System.Collections.Specialized.HybridDictionary implements the
2	System.Collections.Specialized.HybridDictionary.IsReadOnly property
3	because it is required by the interface.
4	IsSynchronized
5	ToString
6	
7	[C#] public bool IsSynchronized {get;}
8	[C++] public:property bool get_IsSynchronized();
9	[VB] Public ReadOnly Property IsSynchronized As Boolean
10	[JScript] public function get IsSynchronized(): Boolean;
11	
12	Description
13	Gets a value indicating whether the
14	System.Collections.Specialized.HybridDictionary is synchronized (thread-safe).
15	System.Collections.Specialized.HybridDictionary implements the
16	System.Collections.Specialized.HybridDictionary.IsSynchronized property
17	because it is required by the interface.
18	Item
19	ToString
20	
21	[C#] public object this[object key] {get; set;}
22	[C++] public:property Object* get_Item(Object* key);public:property void
23	set_Item(Object* key, Object*);
24	[VB] Public Default Property Item(ByVal key As Object) As Object
25	[JScript] returnValue =

1	HybridDictionaryObject.Item(key);HybridDictionaryObject.Item(key) =
2	returnValue;
3	
4	Description
5	Gets or sets the value associated with the specified key.
6	This property provides the ability to access a specific element in the
7	collection by using the following syntax: myCollection[key]. The key whose
8	value to get or set.
9	Keys
10	ToString
11	
12	[C#] public ICollection Keys {get;}
13	[C++] public:property ICollection* get_Keys();
14	[VB] Public ReadOnly Property Keys As ICollection
15	[JScript] public function get Keys(): ICollection;
16	
17	Description
18	Gets an System.Collections.ICollection containing the keys in the
19	System.Collections.Specialized.HybridDictionary.
20	The order of the values in the System.Collections.ICollection is
21	unspecified, but it is the same order as the associated values in the
22	System.Collections.ICollection returned by the
23	System.Collections.Specialized.HybridDictionary.Values method.
24	SyncRoot
25	ToString

1	
2	[C#] public object SyncRoot {get;}
3	[C++] public:property Object* get_SyncRoot();
4	[VB] Public ReadOnly Property SyncRoot As Object
5	[JScript] public function get SyncRoot(): Object;
6	
7	Description
8	Gets an object that can be used to synchronize access to the
9	System.Collections.Specialized.HybridDictionary .
10	Derived classes can provide their own synchronized version of the
11	System.Collections.Specialized.HybridDictionary using the
12	System.Collections.Specialized.HybridDictionary.SyncRoot property. The
13	synchronizing code must perform operations on the
14	System.Collections.Specialized.HybridDictionary.SyncRoot of the
15	System.Collections.Specialized.HybridDictionary, not directly on the
16	System.Collections.Specialized.HybridDictionary. This ensures proper
17	operation of collections that are derived from other objects. Specifically, it
18	maintains proper synchronization with other threads that might be simultaneously
19	modifying the System.Collections.Specialized.HybridDictionary object.
20	Values
21	ToString
22	
23	[C#] public ICollection Values {get;}
24	[C++] public:property ICollection* get_Values();
25	[VB] Public ReadOnly Property Values As ICollection

1	[JScript] public function get Values(): ICollection;
2	
3	Description
4	Gets an System.Collections.ICollection containing the values in the
5	System.Collections.Specialized.HybridDictionary.
6	The order of the values in the System.Collections.ICollection is
7	unspecified, but it is the same order as the associated keys in the
8	System.Collections.ICollection returned by the
9	System.Collections.Specialized.HybridDictionary.Keys method.
10	Add
11	
12	[C#] public void Add(object key, object value);
13	[C++] public:sealed void Add(Object* key, Object* value);
14	[VB] NotOverridable Public Sub Add(ByVal key As Object, ByVal value As
15	Object)
16	[JScript] public function Add(key: Object, value: Object);
17	
18	Description
19	Adds an entry with the specified key and value into the
20	System.Collections.Specialized.HybridDictionary.
21	An object that has no correlation between its state and its hash code value
22	should typically not be used as the key. For example, String objects are better than
23	StringBuilder objects for use as keys. The key of the entry to add. The value of the
24	entry to add.
25	Clear

1	
2	[C#] public void Clear();
3	[C++] public:sealed void Clear();
4	[VB] NotOverridable Public Sub Clear()
5	[JScript] public function Clear();
6	
7	Description
8	Removes all entries from the
9	System.Collections.Specialized.HybridDictionary.
10	System.Collections.Specialized.HybridDictionary.Count is set to zero.
11	Contains
12	
13	[C#] public bool Contains(object key);
14	[C++] public:sealed bool Contains(Object* key);
15	[VB] NotOverridable Public Function Contains(ByVal key As Object) As Boolean
16	[JScript] public function Contains(key: Object): Boolean;
17	
18	Description
19	Determines whether the
20	System.Collections.Specialized.HybridDictionary contains a specific key.
21	Return Value: true if the System.Collections.Specialized.HybridDictionary
22	contains an entry with the specified key; otherwise, false.
23	This implementation is close to $O(1)$ in most cases. The key to locate in the
24	System.Collections.Specialized.HybridDictionary.
25	СоруТо

1 [C#] public void CopyTo(Array array, int index); 2 [C++] public: __sealed void CopyTo(Array* array, int index); 3 [VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As 4 Integer) 5 [JScript] public function CopyTo(array: Array, index: int); 7 Description 8 Copies the System.Collections.Specialized.HybridDictionary entries to a 9 one-dimensional System. Array instance at the specified index. 10 The elements are copied to the System.Array in the same order in which 11 the enumerator iterates through the 12 ${\bf System. Collections. Specialized. Hybrid Dictionary}\ .\ {\bf The\ one-dimensional}$ 13 System.Array that is the destination of the System.Collections.DictionaryEntry 14 objects copied from System.Collections.Specialized.HybridDictionary. The 15 System.Array must have zero-based indexing. The zero-based index in array at 16 which copying begins. 17 GetEnumerator 18 19 [C#] public IDictionaryEnumerator GetEnumerator(); 20 [C++] public: __sealed IDictionaryEnumerator* GetEnumerator(); 21 [VB] NotOverridable Public Function GetEnumerator() As IDictionaryEnumerator 22 [JScript] public function GetEnumerator(): IDictionaryEnumerator; Returns an 23 enumerator that can iterate through the 24 $System. Collections. Specialized. Hybrid Dictionary \ . \\$ 25

1	
2	Description
3	Returns an enumerator that can iterate through the
4	System.Collections.Specialized.HybridDictionary.
5	Return Value: An System.Collections.IDictionaryEnumerator for the
6	System.Collections.Specialized.HybridDictionary.
7	Enumerators are intended to be used only to read data in the collection.
8	Enumerators cannot be used to modify the underlying collection.
9	Remove
10	
11	[C#] public void Remove(object key);
12	[C++] public:sealed void Remove(Object* key);
13	[VB] NotOverridable Public Sub Remove(ByVal key As Object)
14	[JScript] public function Remove(key : Object);
15	
16	Description
17	Removes the entry with the specified key from the
18	System.Collections.Specialized.HybridDictionary.
19	If the System.Collections.Specialized.HybridDictionary does not contain
20	an element with the specified key, the
21	System.Collections.Specialized.HybridDictionary remains unchanged. No
22	exception is thrown. The key of the entry to remove.
23	IEnumerable.GetEnumerator
24	
25	[C#] IFnumerator IEnumerable.GetEnumerator();

1	[C++] IEnumerator* IEnumerable::GetEnumerator();
2	[VB] Function GetEnumerator() As IEnumerator Implements
3	IEnumerable.GetEnumerator
4	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
5	NameObjectCollectionBase.KeysCollection class
6	(System.Collections.Specialized)
7	ToString
8	
9	
10	Description
11	Represents a collection of the System.String keys of a collection.
12	Count
13	ToString
14	
15	[C#] public int Count {get;}
16	[C++] public:property int get_Count();
17	[VB] Public ReadOnly Property Count As Integer
18	[JScript] public function get Count(): int;
19	
20	Description
21	Gets the number of keys in the
22	$System. Collections. Specialized. Name Object Collection Base. Keys Collection \ .$
23	Item
24	ToString
25	

1 [C#] public string this[int index] {get;} 2 [C++] public: property String* get_Item(int index); 3 [VB] Public Default ReadOnly Property Item(ByVal index As Integer) As String 4 [JScript] returnValue = KeysCollectionObject.Item(index); 5 6 Description 7 Gets the entry at the specified index of the collection. 8 This property provides the ability to access a specific element in the 9 collection by using the following syntax: myCollection[index] (In Visual Basic, 10 myCollection(index)). The zero-based index of the entry to locate in the 11 collection. 12 Get 13 14 [C#] public virtual string Get(int index); 15 [C++] public: virtual String* Get(int index); [VB] Overridable Public Function Get(ByVal index As Integer) As String 17 [JScript] public function Get(index: int): String; 19 Description 20 Gets the key at the specified index of the collection. 21 Return Value: A System.String that contains the key at the specified index of the 22 collection. The zero-based index of the key to get from the collection. 23 GetEnumerator 24

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1	
2	[C#] public IEnumerator GetEnumerator();
3	[C++] public:sealed IEnumerator* GetEnumerator();
4	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
5	[JScript] public function GetEnumerator(): IEnumerator;
6	
7	Description
8	Returns an enumerator that can iterate through the
9	System. Collections. Specialized. Name Object Collection Base. Keys Collection Collect
10	Return Value: An System.Collections.IEnumerator for the
11	System. Collections. Specialized. Name Object Collection Base. Keys Collection Collect
12	This enumerator returns the keys of the collection as strings.
13	ICollection.CopyTo
14	
15	[C#] void ICollection.CopyTo(Array array, int index);
16	[C++] void ICollection::CopyTo(Array* array, int index);
17	[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer) Implements
18	ICollection.CopyTo
19	[JScript] function ICollection.CopyTo(array : Array, index : int);
20	ListDictionary class (System.Collections.Specialized)
21	ToString
22	
23	
24	Description
25	

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Implements **IDictionary** using a singly linked list for collections that contain 10 items or less.

This is a simple implementation of **System.Collections.IDictionary** using a singly linked list. It is smaller and faster than a **System.Collections.Hashtable** if the number of elements is 10 or less. This should not be used if performance is important for large numbers of elements.

ListDictionary

Example Syntax:

ToString

[C#] public ListDictionary();

[C++] public: ListDictionary();

[VB] Public Sub New()

[JScript] public function ListDictionary(); Initializes a new instance of the **System.Collections.Specialized.ListDictionary** class.

Description

Creates an empty **System.Collections.Specialized.ListDictionary** using the default comparer.

The comparer determines whether two keys are equal. Every key in a System.Collections.Specialized.ListDictionary must be unique. The default comparer is the key's implementation of System.Object.Equals(System.Object).

ListDictionary

Example Syntax:

ToString

```
1
    [C#] public ListDictionary(IComparer comparer);
2
    [C++] public: ListDictionary(IComparer* comparer);
3
    [VB] Public Sub New(ByVal comparer As IComparer)
4
    [JScript] public function ListDictionary(comparer: IComparer);
5
6
    Description
7
          Creates an empty System.Collections.Specialized.ListDictionary using
8
    the specified comparer.
           The comparer determines whether two keys are equal. Every key in a
10
    System.Collections.Specialized.ListDictionary must be unique. The default
11
    comparer is the key's implementation of System.Object.Equals(System.Object) .
12
    The System.Collections.IComparer to use to determine whether two keys are
13
    equal.
14
           Count
15
           ToString
16
17
    [C#] public int Count {get;}
18
    [C++] public: __property int get_Count();
19
    [VB] Public ReadOnly Property Count As Integer
20
    [JScript] public function get Count(): int;
21
22
    Description
23
           Gets the number of key-and-value pairs contained in the
24
     System.Collections.Specialized.ListDictionary .
```

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1	IsFixedSize
2	ToString
3	
4	[C#] public bool IsFixedSize {get;}
5	[C++] public:property bool get_IsFixedSize();
6	[VB] Public ReadOnly Property IsFixedSize As Boolean
7	[JScript] public function get IsFixedSize(): Boolean;
8	
9	Description
10	Gets a value indicating whether the
11	System.Collections.Specialized.ListDictionary has a fixed size.
12	System.Collections.Specialized.ListDictionary implements the
13	System.Collections.Specialized.ListDictionary.IsFixedSize property because it
14	is required by the interface.
15	IsReadOnly
16	ToString
17	
18	[C#] public bool IsReadOnly {get;}
19	[C++] public:property bool get_IsReadOnly();
20	[VB] Public ReadOnly Property IsReadOnly As Boolean
21	[JScript] public function get IsReadOnly(): Boolean;
22	
23	Description
24	Gets a value indicating whether the
25	System.Collections.Specialized.ListDictionary is read-only.

```
System.Collections.Specialized.ListDictionary implements the
1
   System.Collections.Specialized.ListDictionary.IsReadOnly property because it
2
   is required by the interface.
3
          IsSynchronized
4
           ToString
5
6
    [C#] public bool IsSynchronized {get;}
    [C++] public: property bool get_IsSynchronized();
8
    [VB] Public ReadOnly Property IsSynchronized As Boolean
    [JScript] public function get IsSynchronized(): Boolean;
10
11
    Description
12
           Gets a value indicating whether the
13
    System.Collections.Specialized.ListDictionary is synchronized (thread-safe).
14
           System.Collections.Specialized.ListDictionary implements the
15
    System. Collections. Specialized. List Dictionary. Is Synchronized \ property \\
    because it is required by the interface.
17
           Item
18
           ToString
19
20
    [C#] public object this[object key] {get; set;}
21
    [C++] public: __property Object* get_Item(Object* key);public: __property void
22
    set Item(Object* key, Object*);
23
     [VB] Public Default Property Item(ByVal key As Object) As Object
24
     [JScript] returnValue =
25
```

1	ListDictionaryObject.Item(key);ListDictionaryObject.Item(key) = returnValue;
2	
3	Description
4	Gets or sets the value associated with the specified key.
5	This property provides the ability to access a specific element in the
6	collection by using the following syntax: myCollection[key] . The key whose
7	value to get or set.
8	Keys
9	ToString
10	
11	[C#] public ICollection Keys {get;}
12	[C++] public:property ICollection* get_Keys();
13	[VB] Public ReadOnly Property Keys As ICollection
14	[JScript] public function get Keys(): ICollection;
15	
16	Description
17	Gets an System.Collections.ICollection containing the keys in the
18	System.Collections.Specialized.ListDictionary.
19	The order of the values in the System.Collections.ICollection is
20	unspecified, but it is the same order as the associated values in the
21	System.Collections.ICollection returned by the
22	System.Collections.Specialized.ListDictionary.Values method.
23	SyncRoot
24	ToString
25	

1 [C#] public object SyncRoot {get;} [C++] public: __property Object* get_SyncRoot(); 3 [VB] Public ReadOnly Property SyncRoot As Object [JScript] public function get SyncRoot(): Object; 5 6 Description 7 Gets an object that can be used to synchronize access to the 8 System.Collections.Specialized.ListDictionary . 9 Derived classes can provide their own synchronized version of the 10 System.Collections.Specialized.ListDictionary using the 11 System.Collections.Specialized.ListDictionary.SyncRoot property. The 12 synchronizing code must perform operations on the 13 ${\bf System. Collections. Specialized. List Dictionary. Sync Root \ of \ the}$ 14 System.Collections.Specialized.ListDictionary, not directly on the 15 System.Collections.Specialized.ListDictionary . This ensures proper operation 16 of collections that are derived from other objects. Specifically, it maintains proper 17 synchronization with other threads that might be simultaneously modifying the 18 System.Collections.Specialized.ListDictionary object. 19 Values 20 **ToString** 21 22 [C#] public ICollection Values {get;} 23 [C++] public: _property ICollection* get_Values(); 24

[VB] Public ReadOnly Property Values As ICollection

[JScript] public function get Values() : ICollection;

Description

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Gets an System.Collections.ICollection containing the values in the System.Collections.Specialized.ListDictionary.

The order of the values in the **System.Collections.ICollection** is unspecified, but it is the same order as the associated keys in the **System.Collections.ICollection** returned by the

System.Collections.Specialized.ListDictionary.Keys method.

Add

[C#] public void Add(object key, object value);

[C++] public: __sealed void Add(Object* key, Object* value);

[VB] NotOverridable Public Sub Add(ByVal key As Object, ByVal value As Object)

[JScript] public function Add(key: Object, value: Object);

Description

Adds an entry with the specified key and value into the System.Collections.Specialized.ListDictionary.

An object that has no correlation between its state and its hash code value should typically not be used as the key. For example, String objects are better than StringBuilder objects for use as keys. The key of the entry to add. The value of the entry to add.

Clear

[C#] public void Clear(); [C++] public: __sealed void Clear(); 3 [VB] NotOverridable Public Sub Clear() [JScript] public function Clear(); 5 6 Description 7 Removes all entries from the 8 $System. Collections. Specialized. List Dictionary \ . \\$ 9 System.Collections.Specialized.ListDictionary.Count is set to zero. 10 Contains 11 12 [C#] public bool Contains(object key); 13 [C++] public: __sealed bool Contains(Object* key); 14 [VB] NotOverridable Public Function Contains(ByVal key As Object) As Boolean 15 [JScript] public function Contains(key: Object): Boolean; 16 17 Description 18 Determines whether the System.Collections.Specialized.ListDictionary 19 contains a specific key. 20 Return Value: true if the System.Collections.Specialized.ListDictionary 21 contains an entry with the specified key; otherwise, false. 22 This implementation is close to O(1) in most cases. The key to locate in the 23 System.Collections.Specialized.ListDictionary. 24 CopyTo 25

1	
2	[C#] public void CopyTo(Array array, int index);
3	[C++] public:sealed void CopyTo(Array* array, int index);
4	[VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As
5	Integer)
6	[JScript] public function CopyTo(array: Array, index: int);
7	
8	Description
9	Copies the System.Collections.Specialized.ListDictionary entries to a
10	one-dimensional System. Array instance at the specified index.
11	The elements are copied to the System.Array in the same order in which
12	the enumerator iterates through the
13	System.Collections.Specialized.ListDictionary. The one-dimensional
14	System.Array that is the destination of the System.Collections.DictionaryEntry
15	objects copied from System.Collections.Specialized.ListDictionary. The
16	System.Array must have zero-based indexing. The zero-based index in array at
17	which copying begins.
18	GetEnumerator
19	
20	[C#] public IDictionaryEnumerator GetEnumerator();
21	[C++] public:sealed IDictionaryEnumerator* GetEnumerator();
22	[VB] NotOverridable Public Function GetEnumerator() As IDictionaryEnumerator
23	[JScript] public function GetEnumerator() : IDictionaryEnumerator;
24	
25	Description

Returns an enumerator that can iterate through the
System.Collections.Specialized.ListDictionary .
Return Value: An System.Collections.IDictionaryEnumerator for the
System.Collections.Specialized.ListDictionary .
Enumerators are intended to be used only to read data in the collection.
Enumerators cannot be used to modify the underlying collection.
Remove
[C#] public void Remove(object key);
[C++] public:sealed void Remove(Object* key);
[VB] NotOverridable Public Sub Remove(ByVal key As Object)
[JScript] public function Remove(key : Object);
Description
Removes the entry with the specified key from the
System.Collections.Specialized.ListDictionary.
If the System.Collections.Specialized.ListDictionary does not contain an
element with the specified key, the
System.Collections.Specialized.ListDictionary remains unchanged. No
exception is thrown. The key of the entry to remove.
IEnumerable.GetEnumerator
[C#] IEnumerator IEnumerable.GetEnumerator();
[C++] IEnumerator* IEnumerable::GetEnumerator();
[VB] Function GetEnumerator() As IEnumerator Implements

1	IEnumerable.GetEnumerator
2	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
3	NameObjectCollectionBase class (System.Collections.Specialized)
4	ToString
5	
6	
7	Description
8	Provides the abstract base class for a sorted collection of associated
9	System.String keys and System.Object values that can be accessed either with
10	the key or with the index.
11	The underlying structure for this class is a hashtable.
12	NameObjectCollectionBase
13	Example Syntax:
14	ToString
15	
16	[C#] protected NameObjectCollectionBase();
17	[C++] protected: NameObjectCollectionBase();
18	[VB] Protected Sub New()
19	[JScript] protected function NameObjectCollectionBase(); Initializes a new
20	instance of the System.Collections.Specialized.NameObjectCollectionBase
21	class.
22	
23	Description
24	Initializes a new instance of the
25	System.Collections.Specialized.NameObjectCollectionBase class that is empty.

The capacity is the number of key-and-value pairs that the **System.Collections.Specialized.NameObjectCollectionBase** instance can contain. The default initial capacity is zero. The capacity is automatically increased as required.

NameObjectCollectionBase

Example Syntax:

ToString

[C#] protected NameObjectCollectionBase(int capacity);

[C++] protected: NameObjectCollectionBase(int capacity);

[VB] Protected Sub New(ByVal capacity As Integer)

[JScript] protected function NameObjectCollectionBase(capacity:int);

Description

Initializes a new instance of the

System.Collections.Specialized.NameObjectCollectionBase class that is empty and has the specified initial capacity.

The capacity is the number of key-and-value pairs that the System.Collections.Specialized.NameObjectCollectionBase instance can contain. Specifying the initial capacity eliminates the need to perform a number of resizing operations while entries are added to the

System.Collections.Specialized.NameObjectCollectionBase instance. The capacity is automatically increased as required. The approximate number of entries that the System.Collections.Specialized.NameObjectCollectionBase instance can initially contain.

NameObjectCollectionBase

Example Syntax:

ToString

[C#] protected NameObjectCollectionBase(IHashCodeProvider hashProvider, IComparer comparer);

[C++] protected: NameObjectCollectionBase(IHashCodeProvider* hashProvider, IComparer* comparer);

[VB] Protected Sub New(ByVal hashProvider As IHashCodeProvider, ByVal comparer As IComparer)

 $[JScript]\ protected\ function\ NameObjectCollectionBase (hashProvider:$

IHashCodeProvider, comparer: IComparer);

Description

Initializes a new instance of the

 ${\bf System. Collections. Specialized. Name Object Collection Base \ class \ that \ is \ empty}$ and uses the specified hash code provider and the specified comparer.

The capacity is the number of key-and-value pairs that the System.Collections.Specialized.NameObjectCollectionBase instance can contain. The default initial capacity is zero. The capacity is automatically increased as required. The System.Collections.IHashCodeProvider that will supply the hash codes for all keys in the

System.Collections.Specialized.NameObjectCollectionBase instance. The System.Collections.IComparer to use to determine whether two keys are equal.

NameObjectCollectionBase

1	Example Syntax:
2	ToString
3	
4	[C#] protected NameObjectCollectionBase(SerializationInfo info,
5	StreamingContext context);
6	[C++] protected: NameObjectCollectionBase(SerializationInfo* info,
7	StreamingContext context);
8	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
9	StreamingContext)
10	[JScript] protected function NameObjectCollectionBase(info : SerializationInfo,
11	context : StreamingContext);
12	
13	Description
14	Initializes a new instance of the
15	System.Collections.Specialized.NameObjectCollectionBase class that is
16	serializable and uses the specified
17	System.Runtime.Serialization.SerializationInfo and
18	System.Runtime.Serialization.StreamingContext . A
19	System.Runtime.Serialization.SerializationInfo object that contains the
20	information required to serialize the new
21	System.Collections.Specialized.NameObjectCollectionBase instance. A
22	System.Runtime.Serialization.StreamingContext object that contains the source
23	and destination of the serialized stream associated with the new
24	System.Collections.Specialized.NameObjectCollectionBase instance.
25	NameObjectCollectionBase

Example Syntax:

ToString

[C#] protected NameObjectCollectionBase(int capacity, IHashCodeProvider hashProvider, IComparer comparer);

[C++] protected: NameObjectCollectionBase(int capacity, IHashCodeProvider* hashProvider, IComparer* comparer);

[VB] Protected Sub New(ByVal capacity As Integer, ByVal hashProvider As IHashCodeProvider, ByVal comparer As IComparer)

[JScript] protected function NameObjectCollectionBase(capacity: int,

hashProvider: IHashCodeProvider, comparer: IComparer);

Description

Initializes a new instance of the

System.Collections.Specialized.NameObjectCollectionBase class that is empty, has the specified initial capacity and uses the specified case-insensitive hash code provider and the specified case-insensitive comparer.

The capacity is the number of key-and-value pairs that the
System.Collections.Specialized.NameObjectCollectionBase instance can
contain. Specifying the initial capacity eliminates the need to perform a number of
resizing operations while entries are added to the

System.Collections.Specialized.NameObjectCollectionBase instance. The capacity is automatically increased as required. The approximate number of entries that the System.Collections.Specialized.NameObjectCollectionBase instance can initially contain. The case-insensitive

1	System.Collections.IHashCodeProvider that will supply the hash codes for all
2	keys in the System.Collections.Specialized.NameObjectCollectionBase
3	instance. The case-insensitive System.Collections.IComparer to use to determine
4	whether two keys are equal.
5	Count
6	ToString
7	
8	[C#] public virtual int Count {get;}
9	[C++] public:property virtual int get_Count();
10	[VB] Overridable Public ReadOnly Property Count As Integer
11	[JScript] public function get Count(): int;
12	
13	Description
14	Gets the number of key-and-value pairs contained in the
15	System.Collections.Specialized.NameObjectCollectionBase instance.
16	IsReadOnly
17	ToString
18	
19	[C#] protected bool IsReadOnly {get; set;}
20	[C++] protected:property bool get_IsReadOnly();protected:property void
21	set_IsReadOnly(bool);
22	[VB] Protected Property IsReadOnly As Boolean
23	[JScript] protected function get IsReadOnly(): Boolean;protected function set
24	IsReadOnly(Boolean);
25	

11	
1	
2	Description
3	Gets or sets a value indicating whether the
4	System.Collections.Specialized.NameObjectCollectionBase instance is read-
5	only.
6	Keys
7	ToString
8	
9	[C#] public virtual NameObjectCollectionBase.KeysCollection Keys {get;}
10	[C++] public:property virtual NameObjectCollectionBase.KeysCollection*
11	get_Keys();
12	[VB] Overridable Public ReadOnly Property Keys As
13	NameObjectCollectionBase.KeysCollection
14	[JScript] public function get Keys(): NameObjectCollectionBase.KeysCollection
15	
16	Description
17	Gets a
18	System.Collections.Specialized.NameObjectCollectionBase.KeysCollection
19	instance that contains all the keys in the
20	System.Collections.Specialized.NameObjectCollectionBase instance.
21	BaseAdd
22	
23	[C#] protected void BaseAdd(string name, object value);
24	[C++] protected: void BaseAdd(String* name, Object* value);
25	[VB] Protected Sub BaseAdd(ByVal name As String, ByVal value As Object)
•	

1	[JScript] protected function BaseAdd(name : String, value : Object);
2	
3	Description
4	Adds an entry with the specified key and value into the
5	System.Collections.Specialized.NameObjectCollectionBase instance. The
6	System.String key of the entry to add. The key can be null. The System.Object
7	value of the entry to add. The value can be null.
8	BaseClear
9	
10	[C#] protected void BaseClear();
11	[C++] protected: void BaseClear();
12	[VB] Protected Sub BaseClear()
13	[JScript] protected function BaseClear();
14	
15	Description
16	Removes all entries from the
17	System.Collections.Specialized.NameObjectCollectionBase instance.
18	System.Collections.Specialized.NameObjectCollectionBase.Count is set
19	to zero.
20	BaseGet
21	
22	[C#] protected object BaseGet(int index);
23	[C++] protected: Object* BaseGet(int index);
24	[VB] Protected Function BaseGet(ByVal index As Integer) As Object
25	[JScript] protected function BaseGet(index : int) : Object;

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Gets the value of the entry at the specified index of the System.Collections.Specialized.NameObjectCollectionBase instance.

Return Value: An System.Object that represents the value of the entry at the specified index. The zero-based index of the value to get.

BaseGet

[C#] protected object BaseGet(string name);

[C++] protected: Object* BaseGet(String* name);

[VB] Protected Function BaseGet(ByVal name As String) As Object

[JScript] protected function BaseGet(name : String) : Object; Gets the value of the specified entry from the

 $System. Collections. Specialized. Name Object Collection Base \ instance.$

Description

Gets the value of the first entry with the specified key from the System.Collections.Specialized.NameObjectCollectionBase instance.

Return Value: An System.Object that represents the value of the first entry with the specified key, if found; otherwise, null.

If the collection contains multiple entries with the specified key, this method returns only the first entry. To get the values of subsequent entries with the same key, use the enumerator to iterate through the collection and compare the keys. The **System.String** key of the entry to get. The key can be **null**.

BaseGetAllKeys

1 [C#] protected string[] BaseGetAllKeys(); [C++] protected: String* BaseGetAllKeys() __gc[]; 3 [VB] Protected Function BaseGetAllKeys() As String() 4 [JScript] protected function BaseGetAllKeys(): String[]; 5 6 Description 7 Returns a System.String array that contains all the keys in the 8 $System. Collections. Specialized. Name Object Collection Base \ instance.$ 9 Return Value: A System.String array that contains all the keys in the 10 $System. Collections. Specialized. Name Object Collection Base \ instance. \\$ 11 BaseGetAllValues 12 13 [C#] protected object[] BaseGetAllValues(); 14 [C++] protected: Object* BaseGetAllValues() __gc[]; 15 [VB] Protected Function BaseGetAllValues() As Object() [JScript] protected function BaseGetAllValues(): Object[]; Returns an array that 17 contains all the values in the 18 $System. Collections. Specialized. Name Object Collection Base \ instance.$ 19 20 Description 21 Returns an System.Object array that contains all the values in the 22 ${\bf System. Collections. Specialized. Name Object Collection Base \ instance.}$ 23 Return Value: An System.Object array that contains all the values in the 24 ${\bf System. Collections. Specialized. Name Object Collection Base \ instance.}$

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[C#] protected object[] BaseGetAllValues(Type type);

[C++] protected: Object* BaseGetAllValues(Type* type) __gc[];

[VB] Protected Function BaseGetAllValues(ByVal type As Type) As Object()

[JScript] protected function BaseGetAllValues(type : Type) : Object[];

Description

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Returns an array of the specified type that contains all the values in the System.Collections.Specialized.NameObjectCollectionBase instance.

Return Value: An array of the specified type that contains all the values in the System.Collections.Specialized.NameObjectCollectionBase instance. A System.Type that represents the type of array to return.

BaseGetKey

[C#] protected string BaseGetKey(int index);

[C++] protected: String* BaseGetKey(int index);

[VB] Protected Function BaseGetKey(ByVal index As Integer) As String

[JScript] protected function BaseGetKey(index : int) : String;

Description

Gets the key of the entry at the specified index of the

System.Collections.Specialized.NameObjectCollectionBase instance.

Return Value: A System.String that represents the key of the entry at the specified index. The zero-based index of the key to get.

1	BaseHasKeys
2	
3	[C#] protected bool BaseHasKeys();
4	[C++] protected: bool BaseHasKeys();
5	[VB] Protected Function BaseHasKeys() As Boolean
6	[JScript] protected function BaseHasKeys(): Boolean;
7	
8	Description
9	Gets a value indicating whether the
10	System.Collections.Specialized.NameObjectCollectionBase instance contains
11	entries whose keys are not null.
12	Return Value: true if the
13	System.Collections.Specialized.NameObjectCollectionBase instance contains
14	entries whose keys are not null; otherwise, false.
15	BaseRemove
16	
17	[C#] protected void BaseRemove(string name);
18	[C++] protected: void BaseRemove(String* name);
19	[VB] Protected Sub BaseRemove(ByVal name As String)
20	[JScript] protected function BaseRemove(name : String); Removes the specified
21	entries from the System.Collections.Specialized.NameObjectCollectionBase
22	instance.
23	
24	Description
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Removes the entries with the specified key from the System.Collections.Specialized.NameObjectCollectionBase instance.

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The **System.String** key of the entries to remove. The key can be **null**.

BaseRemoveAt

[C#] protected void BaseRemoveAt(int index);

[C++] protected: void BaseRemoveAt(int index);

[VB] Protected Sub BaseRemoveAt(ByVal index As Integer)

[JScript] protected function BaseRemoveAt(index : int);

Description

Removes the entry at the specified index of the

 $System. Collections. Specialized. Name Object Collection Base \ instance. \\$

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The zero-based index of the entry to remove.

BaseSet

[C#] protected void BaseSet(int index, object value);

[C++] protected: void BaseSet(int index, Object* value);

[VB] Protected Sub BaseSet(ByVal index As Integer, ByVal value As Object)

[JScript] protected function BaseSet(index : int, value : Object);

Sets the value of the entry at the specified index of the System.Collections.Specialized.NameObjectCollectionBase instance. The zero-based index of the entry to set. The System.Object that represents the new value of the entry to set. The value can be null.

BaseSet

[C#] protected void BaseSet(string name, object value);

[C++] protected: void BaseSet(String* name, Object* value);

[VB] Protected Sub BaseSet(ByVal name As String, ByVal value As Object)

[JScript] protected function BaseSet(name : String, value : Object); Sets the value of an entry in the System.Collections.Specialized.NameObjectCollectionBase

Description

instance.

Sets the value of the first entry with the specified key in the System.Collections.Specialized.NameObjectCollectionBase instance, if found; otherwise, adds an entry with the specified key and value into the System.Collections.Specialized.NameObjectCollectionBase instance.

If the collection contains multiple entries with the specified key, this method sets only the first entry. To set the values of subsequent entries with the same key, use the enumerator to iterate through the collection and compare the keys. The **System.String** key of the entry to set. The key can be **null**. The

1	System.Object that represents the new value of the entry to set. The value can be
2	null.
3	GetEnumerator
4	
5	[C#] public IEnumerator GetEnumerator();
6	[C++] public:sealed IEnumerator* GetEnumerator();
7	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
8	[JScript] public function GetEnumerator(): IEnumerator;
9	
10	Description
11	Returns an enumerator that can iterate through the
12	System.Collections.Specialized.NameObjectCollectionBase.
13	Return Value: An System.Collections.IEnumerator for the
14	System.Collections.Specialized.NameObjectCollectionBase instance.
15	This enumerator returns the keys of the collection as strings.
16	GetObjectData
17	
18	[C#] public virtual void GetObjectData(SerializationInfo info, StreamingContext
19	context);
20	[C++] public: virtual void GetObjectData(SerializationInfo* info,
21	StreamingContext context);
22	[VB] Overridable Public Sub GetObjectData(ByVal info As SerializationInfo,
23	ByVal context As StreamingContext)
24	[JScript] public function GetObjectData(info: SerializationInfo, context:
25	StreamingContext);

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Implements the **System.Runtime.Serialization.ISerializable** interface and returns the data needed to serialize the

System.Collections.Specialized.NameObjectCollectionBase instance. A System.Runtime.Serialization.SerializationInfo object that contains the information required to serialize the

System.Collections.Specialized.NameObjectCollectionBase instance.

System.Collections.Specialized.NameObjectCollectionBase instance. A

System.Runtime.Serialization.StreamingContext object that contains the source
and destination of the serialized stream associated with the

OnDeserialization

[C#] public virtual void OnDeserialization(object sender);

[C++] public: virtual void OnDeserialization(Object* sender);

[VB] Overridable Public Sub OnDeserialization(ByVal sender As Object)

[JScript] public function OnDeserialization(sender : Object);

Description

Implements the **System.Runtime.Serialization.ISerializable** interface and raises the descrialization event when the descrialization is complete. The source of the descrialization event.

ICollection.CopyTo

[C#] void ICollection.CopyTo(Array array, int index);

1	[C++] void ICollection::CopyTo(Array* array, int index);
2	[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer) Implements
3	ICollection.CopyTo
4	[JScript] function ICollection.CopyTo(array: Array, index: int);
5	NameValueCollection class (System.Collections.Specialized)
6	ToString
7	
8	
9	Description
10	Represents a sorted collection of associated System.String keys and
11	System.String values that can be accessed either with the key or with the index.
12	This collection is based on the
13	System.Collections.Specialized.NameObjectCollectionBase class. However,
14	unlike the System.Collections.Specialized.NameObjectCollectionBase, this
15	class stores multiple string values under a single key.
16	NameValueCollection
17	Example Syntax:
18	ToString
19	
20	[C#] public NameValueCollection();
21	[C++] public: NameValueCollection();
22	[VB] Public Sub New()
23	[JScript] public function NameValueCollection(); Initializes a new instance of the
24	System.Collections.Specialized.NameValueCollection class.
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Initializes a new instance of the

System.Collections.Specialized.NameValueCollection class that is empty, has the default initial capacity and uses the default case-insensitive hash code provider and the default case-insensitive comparer.

The capacity is the number of key-and-value pairs that the System.Collections.Specialized.NameValueCollection can contain. The default initial capacity is zero. The capacity is automatically increased as required.

NameValueCollection

Example Syntax:

ToString

[C#] public NameValueCollection(int capacity);

[C++] public: NameValueCollection(int capacity);

[VB] Public Sub New(ByVal capacity As Integer)

[JScript] public function NameValueCollection(capacity: int);

Description

Initializes a new instance of the

System.Collections.Specialized.NameValueCollection class that is empty, has the specified initial capacity and uses the default case-insensitive hash code provider and the default case-insensitive comparer.

The capacity is the number of key-and-value pairs that the System.Collections.Specialized.NameValueCollection can contain. The default

initial capacity is zero. The capacity is automatically increased as required. The initial number of entries that the 2 System.Collections.Specialized.NameValueCollection can contain. 3 NameValueCollection 4 Example Syntax: 5 **ToString** 6 7 [C#] public NameValueCollection(NameValueCollection col); 8 [C++] public: NameValueCollection(NameValueCollection* col); [VB] Public Sub New(ByVal col As NameValueCollection) 10 [JScript] public function NameValueCollection(col: NameValueCollection); 11 12 Description 13 Copies the entries from the specified 14 System.Collections.Specialized.NameValueCollection to a new 15 System.Collections.Specialized.NameValueCollection with the same initial 16 capacity as the number of entries copied and using the same hash code provider 17 and the same comparer as the source collection. 18 The capacity is the number of key-and-value pairs that the 19 System.Collections.Specialized.NameValueCollection can contain. The default 20 initial capacity is zero. The capacity is automatically increased as required. The 21 System.Collections.Specialized.NameValueCollection to copy to the new 22 System.Collections.Specialized.NameValueCollection instance. 23 NameValueCollection 24

Example Syntax:

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[C#] public NameValueCollection(IHashCodeProvider hashProvider, IComparer comparer);

[C++] public: NameValueCollection(IHashCodeProvider* hashProvider, IComparer* comparer);

[VB] Public Sub New(ByVal hashProvider As IHashCodeProvider, ByVal comparer As IComparer)

[JScript] public function NameValueCollection(hashProvider:

IHashCodeProvider, comparer : IComparer);

Description

Initializes a new instance of the

System.Collections.Specialized.NameValueCollection class that is empty, has the default initial capacity and uses the specified hash code provider and the specified comparer.

The capacity is the number of key-and-value pairs that the System.Collections.Specialized.NameValueCollection can contain. The default initial capacity is zero. The capacity is automatically increased as required. The System.Collections.IHashCodeProvider that will supply the hash codes for all keys in the System. Collections. Specialized. Name Value Collection. The System.Collections.IComparer to use to determine whether two keys are equal.

NameValueCollection

Example Syntax:

ToString

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1 [C#] public NameValueCollection(int capacity, NameValueCollection col); 2 [C++] public: NameValueCollection(int capacity, NameValueCollection* col); 3 [VB] Public Sub New(ByVal capacity As Integer, ByVal col As 4 NameValueCollection) 5 [JScript] public function NameValueCollection(capacity: int, col: 6 NameValueCollection); 7 8 Description 9 Copies the entries from the specified 10 System.Collections.Specialized.NameValueCollection to a new 11 System.Collections.Specialized.NameValueCollection with the specified initial 12 capacity or the same initial capacity as the number of entries copied, whichever is 13 greater, and using the default case-insensitive hash code provider and the default 14 case-insensitive comparer. 15 The capacity is the number of key-and-value pairs that the 16 17 18

System.Collections.Specialized.NameValueCollection can contain. The default initial capacity is zero. The capacity is automatically increased as required. The initial number of entries that the System.Collections.Specialized.NameValueCollection can contain. The System.Collections.Specialized.NameValueCollection to copy to the new

System.Collections.Specialized.NameValueCollection instance.

NameValueCollection

Example Syntax:

ToString

1	
2	[C#] protected NameValueCollection(SerializationInfo info, StreamingContext
3	context);
4	[C++] protected: NameValueCollection(SerializationInfo* info, StreamingContext
5	context);
6	[VB] Protected Sub New(ByVal info As SerializationInfo, ByVal context As
7	StreamingContext)
8	[JScript] protected function NameValueCollection(info : SerializationInfo, context
9	: StreamingContext);
10	
11	Description
12	Initializes a new instance of the
13	System.Collections.Specialized.NameValueCollection class that is serializable
14	and uses the specified System.Runtime.Serialization.SerializationInfo and
15	System.Runtime.Serialization.StreamingContext . A
16	System.Runtime.Serialization.SerializationInfo object that contains the
17	information required to serialize the new
18	System.Collections.Specialized.NameValueCollection instance. A
19	System.Runtime.Serialization.StreamingContext object that contains the source
20	and destination of the serialized stream associated with the new
21	System.Collections.Specialized.NameValueCollection instance.
22	NameValueCollection
23	Example Syntax:
24	ToString
25	

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1	
2	[C#] public NameValueCollection(int capacity, IHashCodeProvider hashProvider,
3	IComparer comparer);
4	[C++] public: NameValueCollection(int capacity, IHashCodeProvider*
5	hashProvider, IComparer* comparer);
6	[VB] Public Sub New(ByVal capacity As Integer, ByVal hashProvider As
7	IHashCodeProvider, ByVal comparer As IComparer)
8	[JScript] public function NameValueCollection(capacity: int, hashProvider:
9	IHashCodeProvider, comparer: IComparer);
10	
11	Description
12	Initializes a new instance of the
13	System.Collections.Specialized.NameValueCollection class that is empty, has
14	the specified initial capacity and uses the specified hash code provider and the
15	specified comparer.
16	The capacity is the number of key-and-value pairs that the
17	System.Collections.Specialized.NameValueCollection can contain. The default
18	initial capacity is zero. The capacity is automatically increased as required. The
19	initial number of entries that the

System.Collections.Specialized.NameValueCollection can contain. The System.Collections.IHashCodeProvider that will supply the hash codes for all keys in the System.Collections.Specialized.NameValueCollection. The System.Collections.IComparer to use to determine whether two keys are equal.

AllKeys

ToString

1	
2	[C#] public virtual string[] AllKeys {get;}
3	[C++] public:property virtual String* get_AllKeys();
4	[VB] Overridable Public ReadOnly Property AllKeys As String ()
5	[JScript] public function get AllKeys() : String[];
6	
7	Description
8	Gets all the keys in the
9	System.Collections.Specialized.NameValueCollection .
10	If the collection is empty, this method returns an empty System.String
11	array, not null .
12	Count
13	IsReadOnly
14	Item
15	ToString
16	
17	
18	Description
19	Gets the entry at the specified index of the
20	System.Collections.Specialized.NameValueCollection .
21	This property provides the ability to access a specific element in the
22	collection by using the following syntax: myCollection[index] . The zero-based
23	index of the entry to locate in the collection.
24	Item
25	ToString

1	
2	[C#] public string this[string name] {get; set;}
3	[C++] public:property String* get_Item(String* name);public:property void
4	set_Item(String* name, String*);
5	[VB] Public Default Property Item(ByVal name As String) As String
6	[JScript] returnValue =
7	Name Value Collection Object. Item (name); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object. Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value Collection Object Item (name Value Collection Object); Name Value C
8) = returnValue; Gets or sets the specified entry of the
9	$System. Collections. Specialized. Name Value Collection \ .$
10	
11	Description
12	Gets or sets the entry with the specified key in the
13	System.Collections.Specialized.NameValueCollection .
14	This property provides the ability to access a specific element in the
15	collection by using the following syntax: myCollection[name] . The
16	System.String key of the entry to locate. The key can be null.
17	Keys
18	Add
19	
20	[C#] public void Add(NameValueCollection c);
21	[C++] public: void Add(NameValueCollection* c);
22	[VB] Public Sub Add(ByVal c As NameValueCollection)
23	[JScript] public function Add(c: NameValueCollection); Adds entries to the
24	current System.Collections.Specialized.NameValueCollection.
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Copies the entries in the specified

System.Collections.Specialized.NameValueCollection to the current System.Collections.Specialized.NameValueCollection .

If a key in c already exists in the target

System.Collections.Specialized.NameValueCollection instance, the associated value in c is added to the existing comma-separated list of values associated with the same key in the target System.Collections.Specialized.NameValueCollection instance. The System.Collections.Specialized.NameValueCollection to copy to the current System.Collections.Specialized.NameValueCollection.

Add

[C#] public virtual void Add(string name, string value);

[C++] public: virtual void Add(String* name, String* value);

[VB] Overridable Public Sub Add(ByVal name As String, ByVal value As String)

[JScript] public function Add(name : String, value : String);

Description

Adds an entry with the specified name and value to the System.Collections.Specialized.NameValueCollection .

If the specified key already exists in the target

System.Collections.Specialized.NameValueCollection instance, the specified value is added to the existing comma-separated list of values associated with the same key in the target **System.Collections.Specialized.NameValueCollection**

1	instance. The System.String key of the entry to add. The key can be null. The
2	System.String value of the entry to add. The value can be null.
3	Clear
4	
5	[C#] public void Clear();
6	[C++] public: void Clear();
7	[VB] Public Sub Clear()
8	[JScript] public function Clear();
9	
10	Description
11	Invalidates the cached arrays and removes all entries from the
12	System.Collections.Specialized.NameValueCollection .
13	СоруТо
14	
15	[C#] public void CopyTo(Array dest, int index);
16	[C++] public: void CopyTo(Array* dest, int index);
17	[VB] Public Sub CopyTo(ByVal dest As Array, ByVal index As Integer)
18	[JScript] public function CopyTo(dest : Array, index : int);
19	
20	Description
21	Copies the entire System.Collections.Specialized.NameValueCollection
22	to a compatible one-dimensional System.Array, starting at the specified index of
23	the target array.
24	The specified array must be of a compatible type. The one-dimensional
25	System.Array that is the destination of the elements copied from

1	System.Collections.Specialized.NameValueCollection. The System.Array must
2	have zero-based indexing. The zero-based index in dest at which copying begins.
3	Get
4	
5	[C#] public virtual string Get(int index);
6	[C++] public: virtual String* Get(int index);
7	[VB] Overridable Public Function Get(ByVal index As Integer) As String
8	[JScript] public function Get(index : int) : String;
9	
10	Description
11	Gets the values at the specified index of the
12	System.Collections.Specialized.NameValueCollection combined into one
13	comma-separated list.
14	Return Value: A System.String that contains a comma-separated list of the values
15	at the specified index of the
16	System.Collections.Specialized.NameValueCollection, if found; otherwise, null
17	. The zero-based index of the entry that contains the values to get from the
18	collection.
19	Get
20	
21	[C#] public virtual string Get(string name);
22	[C++] public: virtual String* Get(String* name);
23	[VB] Overridable Public Function Get(ByVal name As String) As String
24	[JScript] public function Get(name : String) : String; Gets the values of a specified
25	entry in the System.Collections.Specialized.NameValueCollection combined

1	into one comma-separated list.
2	
3	Description
4	Gets the values associated with the specified key from the
5	System.Collections.Specialized.NameValueCollection combined into one
6	comma-separated list.
7	Return Value: A System.String that contains a comma-separated list of the values
8	associated with the specified key from the
9	System.Collections.Specialized.NameValueCollection, if found; otherwise, null
10	. The System.String key of the entry that contains the values to get. The key can
11	be null.
12	GetKey
13	
14	[C#] public virtual string GetKey(int index);
15	[C++] public: virtual String* GetKey(int index);
16	[VB] Overridable Public Function GetKey(ByVal index As Integer) As String
17	[JScript] public function GetKey(index : int) : String;
18	
19	Description
20	Gets the key at the specified index of the
21	System.Collections.Specialized.NameValueCollection .
22	Return Value: A System.String that contains the key at the specified index of the
23	System.Collections.Specialized.NameValueCollection, if found; otherwise, null
24	. The zero-based index of the key to get from the collection.
25	GetValues

1	
2	[C#] public virtual string[] GetValues(int index);
3	[C++] public: virtual String* GetValues(int index)gc[];
4	[VB] Overridable Public Function GetValues(ByVal index As Integer) As String()
5	[JScript] public function GetValues(index : int) : String[];
6	
7	Description
8	Gets the values at the specified index of the
9	System.Collections.Specialized.NameValueCollection .
10	Return Value: A System.String array that contains the values at the specified
11	index of the System.Collections.Specialized.NameValueCollection, if found;
12	otherwise, null. The zero-based index of the entry that contains the values to get
13	from the collection.
14	GetValues
15	
16	[C#] public virtual string[] GetValues(string name);
17	[C++] public: virtual String* GetValues(String* name)gc[];
18	[VB] Overridable Public Function GetValues(ByVal name As String) As String()
19	[JScript] public function GetValues(name : String) : String[]; Gets the values of a
20	specified entry in the System.Collections.Specialized.NameValueCollection .
21	
22	Description
23	Gets the values associated with the specified key from the
24	System.Collections.Specialized.NameValueCollection .
25	Return Value: A System.String array that contains the values associated with the

specified key from the System.Collections.Specialized.NameValueCollection, if found; otherwise, null . The System.String key of the entry that contains the 2 values to get. The key can be **null**. 3 HasKeys 5 [C#] public bool HasKeys(); 6 [C++] public: bool HasKeys(); 7 [VB] Public Function HasKeys() As Boolean 8 [JScript] public function HasKeys(): Boolean; 10 Description 11 Gets a value indicating whether the 12 System.Collections.Specialized.NameValueCollection contains keys that are not 13 null. 14 Return Value: true if the System.Collections.Specialized.NameValueCollection 15 contains keys that are not null; otherwise, false. 16 **InvalidateCachedArrays** 17 18 [C#] protected void InvalidateCachedArrays(); 19 [C++] protected: void InvalidateCachedArrays(); 20 [VB] Protected Sub InvalidateCachedArrays() 21 [JScript] protected function InvalidateCachedArrays(); 22 23 Description 24

Resets the cached arrays of the collection to null.

1	The arrays returned by
2	System.Collections.Specialized.NameValueCollection.AllKeys are cached for
3	better performance and are automatically refreshed when the collection changes. A
4	derived class can invalidate the cached version by calling
5	System. Collections. Specialized. Name Value Collection. Invalidate Cached Array
6	s, thereby forcing the arrays to be recreated.
7	Remove
8	
9	[C#] public virtual void Remove(string name);
10	[C++] public: virtual void Remove(String* name);
11	[VB] Overridable Public Sub Remove(ByVal name As String)
12	[JScript] public function Remove(name : String);
13	
14	Description
15	Removes the entries with the specified key from the
16	System.Collections.Specialized.NameObjectCollectionBase instance.
17	In collections such as lists, queues and stacks, the elements that follow the
18	removed element move up to occupy the vacated spot. The System.String key of
19	the entry to remove. The key can be null .
20	Set
21	
22	[C#] public virtual void Set(string name, string value);
23	[C++] public: virtual void Set(String* name, String* value);
24	[VB] Overridable Public Sub Set(ByVal name As String, ByVal value As String)
25	[JScript] public function Set(name : String, value : String);

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Sets the value of an entry in the

System.Collections.Specialized.NameValueCollection .

If the specified key already exists in the collection, this method overwrites the existing values with the specified value. To add the new value to the existing list of values, use the

System.Collections.Specialized.NameValueCollection.Add(System.Collections
.Specialized.NameValueCollection) method. The System.String key of the entry
to add the new value to. The key can be null. The System.Object that represents
the new value to add to the specified entry. The value can be null.

BitVector32.Section structure (System.Collections.Specialized)
ToString

Description

Represents an section of the vector that can contain a integer number.

Use

System.Collections.Specialized.BitVector32.CreateSection(System.Int16) to define a new section. A System.Collections.Specialized.BitVector32.Section is a window into the System.Collections.Specialized.BitVector32 and is composed of the smallest number of consecutive bits that can contain the maximum value specified in

System.Collections.Specialized.BitVector32.CreateSection(System.Int16) . For example, a section with a maximum value of 1 is composed of only one bit,

1	whereas a section with a maximum value of 5 is composed of three bits. You can
2	create a System.Collections.Specialized.BitVector32.Section with a maximum
3	value of 1 to serve as a Boolean, thereby allowing you to store integers and
4	Booleans in the same System.Collections.Specialized.BitVector32.
5	Mask
6	ToString
7	
8	[C#] public short Mask {get;}
9	[C++] public:property short get_Mask();
10	[VB] Public ReadOnly Property Mask As Short
11	[JScript] public function get Mask(): Int16;
12	
13	Description
14	
15	Offset
16	ToString
17	
18	[C#] public short Offset {get;}
19	[C++] public:property short get_Offset();
20	[VB] Public ReadOnly Property Offset As Short
21	[JScript] public function get Offset(): Int16;
22	
23	Description
24	
25	Equals

1	
2	[C#] public override bool Equals(object o);
3	[C++] public: bool Equals(Object* o);
4	[VB] Overrides Public Function Equals(ByVal o As Object) As Boolean
5	[JScript] public override function Equals(o : Object) : Boolean;
6	
7	Description
8	
9	GetHashCode
10	
11	[C#] public override int GetHashCode();
12	[C++] public: int GetHashCode();
13	[VB] Overrides Public Function GetHashCode() As Integer
14	[JScript] public override function GetHashCode(): int;
15	
16	Description
17	
18	ToString
19	
20	[C#] public override string ToString();
21	[C++] public: String* ToString();
22	[VB] Overrides Public Function ToString() As String
23	[JScript] public override function ToString() : String;
24	
25	Description

1	
2	ToString
3	
4	[C#] public static string ToString(BitVector32.Section value);
5	[C++] public: static String* ToString(BitVector32.Section value);
6	[VB] Public Shared Function ToString(ByVal value As BitVector32.Section) As
7	String
8	[JScript] public static function ToString(value : BitVector32.Section) : String;
9	
10	Description
11	
12	StringCollection class (System.Collections.Specialized)
13	ToString
14	
15	
16	Description
17	Represents a collection of strings.
18	Duplicate strings are allowed in
19	System.Collections.Specialized.StringCollection .
20	StringCollection
21	Example Syntax:
22	ToString
23	
24	[C#] public StringCollection();
25	[C++] public: StringCollection();

1	[VB] Public Sub New()
2	[JScript] public function StringCollection();
3	Count
4	ToString
5	
6	[C#] public int Count {get;}
7	[C++] public:property int get_Count();
8	[VB] Public ReadOnly Property Count As Integer
9	[JScript] public function get Count(): int;
10	
11	Description
12	Gets the number of strings contained in the
13	System.Collections.Specialized.StringCollection.
14	IsReadOnly
15	ToString
16	
17	[C#] public bool IsReadOnly {get;}
18	[C++] public:property bool get_IsReadOnly();
19	[VB] Public ReadOnly Property IsReadOnly As Boolean
20	[JScript] public function get IsReadOnly(): Boolean;
21	
22	Description
23	Gets a value indicating whether the
24	System.Collections.Specialized.StringCollection is read-only.
25	

,	System.Collections.Specialized.StringCollection implements the
2	System.Collections.Specialized.StringCollection.IsReadOnly property because
3	it is required by the interface.
4	IsSynchronized
5	ToString
6	
7	[C#] public bool IsSynchronized {get;}
8	[C++] public:property bool get_IsSynchronized();
9	[VB] Public ReadOnly Property IsSynchronized As Boolean
10	[JScript] public function get IsSynchronized(): Boolean;
11	·
12	Description
13	Gets a value indicating whether access to the
14	System.Collections.Specialized.StringCollection is synchronized (thread-safe).
15	System.Collections.Specialized.StringCollection implements the
16	System.Collections.Specialized.StringCollection.IsSynchronized property
17	because it is required by the interface.
18	Item
19	ToString
20	
21	[C#] public string this[int index] {get; set;}
22	[C++] public:property String* get_Item(int index);public:property void
23	set_Item(int index, String*);
24	[VB] Public Default Property Item(ByVal index As Integer) As String
25	[JScript] returnValue =

1	StringCollectionObject.Item(index);StringCollectionObject.Item(index) =
2	returnValue;
3	
4	Description
5	Gets or sets the element at the specified index.
6	This property provides the ability to access a specific element in the
7	collection by using the following syntax: myCollection[index] . The zero-based
8	index of the entry to get or set.
9	SyncRoot
10	ToString
11	
12	[C#] public object SyncRoot {get;}
13	[C++] public:property Object* get_SyncRoot();
14	[VB] Public ReadOnly Property SyncRoot As Object
15	[JScript] public function get SyncRoot() : Object;
16	
17	Description
18	Gets an object that can be used to synchronize access to the
19	System.Collections.Specialized.StringCollection .
20	Derived classes can provide their own synchronized version of the
21	System.Collections.Specialized.StringCollection using the
22	System.Collections.Specialized.StringCollection.SyncRoot property. The
23	synchronizing code must perform operations on the
24	System.Collections.Specialized.StringCollection.SyncRoot of the
25	System.Collections.Specialized.StringCollection, not directly on the

1	System.Collections.Specialized.StringCollection . This ensures proper operation
2	of collections that are derived from other objects. Specifically, it maintains proper
3	synchronization with other threads that might be simultaneously modifying the
4	System.Collections.Specialized.StringCollection object.
5	Add
6	
7	[C#] public int Add(string value);
8	[C++] public: int Add(String* value);
9	[VB] Public Function Add(ByVal value As String) As Integer
10	[JScript] public function Add(value : String) : int;
11	
12	Description
13	Adds a string to the end of the
14	System.Collections.Specialized.StringCollection .
15	Return Value: The zero-based index at which the new element is inserted.
16	Duplicate strings are allowed in
17	System.Collections.Specialized.StringCollection . The string to add to the end of
18	the System.Collections.Specialized.StringCollection .
19	AddRange
20	
21	[C#] public void AddRange(string[] value);
22	[C++] public: void AddRange(String* valuegc[]);
23	[VB] Public Sub AddRange(ByVal value() As String)
24	[JScript] public function AddRange(value : String[]);
25	

1	
2	Description
3	Copies the elements of a string array to the end of the
4	System.Collections.Specialized.StringCollection .
5	Duplicate strings are allowed in
6	System.Collections.Specialized.StringCollection . An array of strings to add to
7	the end of the System.Collections.Specialized.StringCollection.
8	Clear
9	
10	[C#] public void Clear();
11	[C++] public:sealed void Clear();
12	[VB] NotOverridable Public Sub Clear()
13	[JScript] public function Clear();
14	
15	Description
16	Removes all the strings from the
17	System.Collections.Specialized.StringCollection .
18	System.Collections.Specialized.StringCollection.Count is set to zero.
19	Contains
20	
21	[C#] public bool Contains(string value);
22	[C++] public: bool Contains(String* value);
23	[VB] Public Function Contains(ByVal value As String) As Boolean
24	[JScript] public function Contains(value : String) : Boolean;
25	

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Determines whether the specified string is in the

System.Collections.Specialized.StringCollection .

Return Value: true if value is found in the

System.Collections.Specialized.StringCollection; otherwise, false.

The

System.Collections.Specialized.StringCollection.Contains(System.String)

method can confirm the existence of a string before performing further operations.

The string to locate in the System.Collections.Specialized.StringCollection .

CopyTo

[C#] public void CopyTo(string[] array, int index);

[C++] public: void CopyTo(String* array __gc[], int index);

[VB] Public Sub CopyTo(ByVal array() As String, ByVal index As Integer)

[JScript] public function CopyTo(array : String[], index : int);

Description

Copies the **System.Collections.Specialized.StringCollection** values to a compatible one-dimensional **System.Array**, starting at the specified index of the target array.

The specified array must be of a compatible type. The one-dimensional

System.Array that is the destination of the values copied from

System.Collections.Specialized.StringCollection. The System.Array must have

zero-based indexing. The zero-based index in array at which copying begins.

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1	GetEnumerator
2	
3	[C#] public StringEnumerator GetEnumerator();
4	[C++] public: StringEnumerator* GetEnumerator();
5	[VB] Public Function GetEnumerator() As StringEnumerator
6	[JScript] public function GetEnumerator(): StringEnumerator;
7	
8	Description
9	Returns an enumerator that can iterate through the
10	System.Collections.Specialized.StringCollection .

Return Value: An System.Collections.IEnumerator for the

System.Collections.Specialized.StringCollection .

Enumerators are intended to be used only to read data in the collection.

Enumerators cannot be used to modify the underlying collection.

IndexOf

[C#] public int IndexOf(string value);

[C++] public: int IndexOf(String* value);

[VB] Public Function IndexOf(ByVal value As String) As Integer

[JScript] public function IndexOf(value : String) : int;

Description

Searches for the specified string and returns the zero-based index of the first occurrence within the System.Collections.Specialized.StringCollection.

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1	Return Value: The zero-based index of the first occurrence of value in the
2	System.Collections.Specialized.StringCollection, if found; otherwise, -1.
3	This method performs a linear search. On average, this is an O($n/2$)
4	operation, where n is System. Collections. Specialized. String Collection. Count .
5	The longest search is an $O(n)$ operation, where n is
6	System.Collections.Specialized.StringCollection.Count . The string to locate.
7	Insert
8	
9	[C#] public void Insert(int index, string value);
10	[C++] public: void Insert(int index, String* value);
11	[VB] Public Sub Insert(ByVal index As Integer, ByVal value As String)
12	[JScript] public function Insert(index : int, value : String);
13	
14	Description
15	Inserts a string into the System.Collections.Specialized.StringCollection
16	at the specified index.
17	Duplicate strings are allowed in
18	System.Collections.Specialized.StringCollection . The zero-based index at
19	which <i>value</i> is inserted. The string to insert.
20	Remove
21	
22	[C#] public void Remove(string value);
23	[C++] public: void Remove(String* value);
24	[VB] Public Sub Remove(ByVal value As String)
25	[JScript] public function Remove(value : String);

24

Description

Removes the first occurrence of a specific string from the System.Collections.Specialized.StringCollection.

Duplicate strings are allowed in

System.Collections.Specialized.StringCollection . Only the first occurrence is removed. To remove all occurrences of the specified string, use

RemoveAt(IndexOf(value)) repeatedly while

System.Collections.Specialized.StringCollection.IndexOf(System.String) does

not return -1. The string to remove from the

System.Collections.Specialized.StringCollection.

RemoveAt

[C#] public void RemoveAt(int index);

[C++] public: sealed void RemoveAt(int index);

[VB] NotOverridable Public Sub RemoveAt(ByVal index As Integer)

[JScript] public function RemoveAt(index : int);

Description

Removes the string at the specified index of the

System.Collections.Specialized.StringCollection .

In collections such as lists, queues and stacks, the elements that follow the removed element move up to occupy the vacated spot. The zero-based index of the string to remove.

ICollection.CopyTo

1	
2	[C#] void ICollection.CopyTo(Array array, int index);
3	[C++] void ICollection::CopyTo(Array* array, int index);
4	[VB] Sub CopyTo(ByVal array As Array, ByVal index As Integer) Implements
5	ICollection.CopyTo
6	[JScript] function ICollection.CopyTo(array: Array, index: int);
7	IEnumerable.GetEnumerator
8	
9	[C#] IEnumerator IEnumerable.GetEnumerator();
10	[C++] IEnumerator* IEnumerable::GetEnumerator();
11	[VB] Function GetEnumerator() As IEnumerator Implements
12	IEnumerable.GetEnumerator
13	[JScript] function IEnumerable.GetEnumerator(): IEnumerator;
14	IList.Add
15	
16	[C#] int IList.Add(object value);
17	[C++] int IList::Add(Object* value);
18	[VB] Function Add(ByVal value As Object) As Integer Implements IList.Add
19	[JScript] function IList.Add(value : Object) : int;
20	IList.Contains
21	
22	[C#] bool IList.Contains(object value);
23	[C++] bool IList::Contains(Object* value);
24	[VB] Function Contains(ByVal value As Object) As Boolean Implements
25	

```
IList.Contains
    [JScript] function IList.Contains(value : Object) : Boolean;
2
           IList.IndexOf
3
    [C#] int IList.IndexOf(object value);
5
    [C++] int IList::IndexOf(Object* value);
    [VB] Function IndexOf(ByVal value As Object) As Integer Implements
7
    IList.IndexOf
8
    [JScript] function IList.IndexOf(value : Object) : int;
9
           IList.Insert
10
11
    [C#] void IList.Insert(int index, object value);
12
    [C++] void IList::Insert(int index, Object* value);
13
    [VB] Sub Insert(ByVal index As Integer, ByVal value As Object) Implements
14
    IList.Insert
15
    [JScript] function IList.Insert(index : int, value : Object);
16
           IList.Remove
17
18
    [C#] void IList.Remove(object value);
19
    [C++] void IList::Remove(Object* value);
20
    [VB] Sub Remove(ByVal value As Object) Implements IList.Remove
21
    [JScript] function IList.Remove(value : Object);
22
            StringDictionary class (System.Collections.Specialized)
23
            ToString
24
25
```

1	
2	
3	Description
4	Implements a hashtable with the key strongly typed to be a string rather
5	than an object.
6	The key is handled in a case-insensitive manner; it will be translated to
7	lower case before it is used with the string dictionary.
8	StringDictionary
9	Example Syntax:
10	ToString
11	
12	[C#] public StringDictionary();
13	[C++] public: StringDictionary();
14	[VB] Public Sub New()
15	[JScript] public function StringDictionary();
16	
17	Description
18	Initializes a new instance of the
19	System.Collections.Specialized.StringDictionary class.
20	Count
21	ToString
22	
23	[C#] public virtual int Count {get;}
24	[C++] public:property virtual int get_Count();
25	[VB] Overridable Public ReadOnly Property Count As Integer

```
[JScript] public function get Count(): int;
2
    Description
3
           Gets the number of key-and-value pairs in the
    System.Collections.Specialized.StringDictionary.
           IsSynchronized
           ToString
8
    [C#] public virtual bool IsSynchronized {get;}
    [C++] public: __property virtual bool get_IsSynchronized();
10
    [VB] Overridable Public ReadOnly Property IsSynchronized As Boolean
11
    [JScript] public function get IsSynchronized(): Boolean;
13
    Description
14
           Indicates whether access to the
15
    System.Collections.Specialized.StringDictionary is synchronized (thread-safe).
16
    This property is read-only.
17
           Item
18
           ToString
19
20
    [C#] public virtual string this[string key] {get; set;}
21
    [C++] public: property virtual String* get_Item(String* key);public: __property
22
    virtual void set Item(String* key, String*);
23
    [VB] Overridable Public Default Property Item(ByVal key As String) As String
24
    [JScript] returnValue =
```

1	StringDictionaryObject.Item(key);StringDictionaryObject.Item(key) =
2	returnValue;
3	
4	Description
5	Gets or sets the value associated with the specified key.
6	The key is handled in a case-insensitive manner; it will be translated to
7	lower case before it is used. The key whose value to get or set.
8	Keys
9	ToString
10	
11	[C#] public virtual ICollection Keys {get;}
12	[C++] public:property virtual ICollection* get_Keys();
13	[VB] Overridable Public ReadOnly Property Keys As ICollection
14	[JScript] public function get Keys(): ICollection;
15	
16	Description
17	Gets a collection of keys in the
18	System.Collections.Specialized.StringDictionary.
19	The order of the keys in the System.Collections.ICollection is unspecified,
20	but it is the same order as the associated values in the
21	System.Collections.ICollection returned by the
22	System.Collections.Specialized.StringDictionary.Values method.
23	SyncRoot
24	ToString
25	

```
1
    [C#] public virtual object SyncRoot {get;}
    [C++] public: property virtual Object* get SyncRoot();
3
    [VB] Overridable Public ReadOnly Property SyncRoot As Object
    [JScript] public function get SyncRoot(): Object;
6
    Description
7
           Gets an object that can be used to synchronize access to the
8
    System.Collections.Specialized.StringDictionary.
           Values
10
           ToString
11
12
    [C#] public virtual ICollection Values {get;}
13
    [C++] public: __property virtual ICollection* get_Values();
14
    [VB] Overridable Public ReadOnly Property Values As ICollection
15
    [JScript] public function get Values(): ICollection;
16
17
    Description
18
           Gets a collection of values in the
19
    System.Collections.Specialized.StringDictionary.
20
           The order of the values in the System.Collections.ICollection is
21
    unspecified, but it is the same order as the associated keys in the
22
    System.Collections.ICollection returned by the
    System.Collections.Specialized.StringDictionary.Keys method.
           Add
25
```

1	
2	[C#] public virtual void Add(string key, string value);
3	[C++] public: virtual void Add(String* key, String* value);
4	[VB] Overridable Public Sub Add(ByVal key As String, ByVal value As String)
5	[JScript] public function Add(key: String, value: String);
6	
7	Description
8	Adds an entry with the specified key and value into the
9	System.Collections.Specialized.StringDictionary .
10	The key is handled in a case-insensitive manner; it will be translated to
11	lower case before it is added to the string dictionary. The key of the entry to add
12	The value of the entry to add.
13	Clear
14	
15	[C#] public virtual void Clear();
16	[C++] public: virtual void Clear();
17	[VB] Overridable Public Sub Clear()
18	[JScript] public function Clear();
19	
20	Description
21	Removes all entries from the
22	System.Collections.Specialized.StringDictionary.
23	ContainsKey
24	
25	[C#] public virtual bool ContainsKey(string key);

1	[C++] public: virtual bool ContainsKey(String* key);
2	[VB] Overridable Public Function ContainsKey(ByVal key As String) As Boolean
3	[JScript] public function ContainsKey(key: String): Boolean;
4	
5	Description
6	Determines if the string dictionary contains a specific key
7	Return Value: true if the System.Collections.Specialized.StringDictionary
8	contains an entry with the specified key; otherwise, false.
9	This implementation is an O(1) operation. The key to locate in the
10	System.Collections.Specialized.StringDictionary.
11	ContainsValue
12	
13	[C#] public virtual bool ContainsValue(string value);
14	[C++] public: virtual bool ContainsValue(String* value);
15	[VB] Overridable Public Function ContainsValue(ByVal value As String) As
16	Boolean
17	[JScript] public function ContainsValue(value : String) : Boolean;
18	
19	Description
20	Determines if the System.Collections.Specialized.StringDictionary
21	contains a specific value.
22	Return Value: true if the System.Collections.Specialized.StringDictionary
23	contains an element with the specified value; otherwise, false.
24	
25	

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The values of the elements of the StringDictionary are compared to the specified value using the **System.Object.Equals(System.Object)** method. The value to locate in the **System.Collections.Specialized.StringDictionary**.

CopyTo

[C#] public virtual void CopyTo(Array array, int index);

[C++] public: virtual void CopyTo(Array* array, int index);

[VB] Overridable Public Sub CopyTo(ByVal array As Array, ByVal index As Integer)

[JScript] public function CopyTo(array: Array, index: int);

Description

Copies the string dictionary values to a one-dimensional **System.Array** instance at the specified index.

System.Collections.Specialized.StringDictionary.CopyTo(System.Array y,System.Int32) only copies the values in the StringDictionary, not the keys. The one-dimensional **System.Array** that is the destination of the values copied from the **System.Collections.Specialized.StringDictionary**. The index in the array where copying begins.

GetEnumerator

[C#] public virtual IEnumerator GetEnumerator();

[C++] public: virtual IEnumerator* GetEnumerator();

[VB] Overridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator;

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Returns an enumerator that can iterate through the string dictionary.

Return Value: An System.Collections.IEnumerator that can iterate through the string dictionary.

The enumerator does not have exclusive access to the

System.Collections.Specialized.StringDictionary; therefore, any changes made to the System.Collections.Specialized.StringDictionary can cause

System.Collections.IEnumerator.Current or

System.Collections.IEnumerator.MoveNext to throw an exception.

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Remove

[C#] public virtual void Remove(string key);

[C++] public: virtual void Remove(String* key);

[VB] Overridable Public Sub Remove(ByVal key As String)

[JScript] public function Remove(key: String);

Description

Removes the entry with the specified key from the string dictionary.

The key is handled in a case-insensitive manner; it will be translated to lower case before it is used to find the entry to remove from the string dictionary. The key of the entry to remove.

StringEnumerator class (System.Collections.Specialized)

ToString

1	
2	
3	Description
4	Supports a simple iteration over a
5	System.Collections.Specialized.StringCollection .
6	Enumerators are intended to be used only to read data in the collection.
7	Enumerators cannot be used to modify the underlying collection.
8	Current
9	ToString
10	
11	[C#] public string Current {get;}
12	[C++] public:property String* get_Current();
13	[VB] Public ReadOnly Property Current As String
14	[JScript] public function get Current() : String;
15	
16	Description
17	Gets the current element in the collection.
18	After an enumerator is created or after a
19	System.Collections.Specialized.StringEnumerator.Reset,
20	System.Collections.Specialized.StringEnumerator.MoveNext must be called to
21	advance the enumerator to the first element of the collection before reading the
22	value of System.Collections.Specialized.StringEnumerator.Current;
23	otherwise, System.Collections.Specialized.StringEnumerator.Current is
24	undefined.
25	MoveNext

1	
2	[C#] public bool MoveNext();
3	[C++] public: bool MoveNext();
4	[VB] Public Function MoveNext() As Boolean
5	[JScript] public function MoveNext(): Boolean;
6	
7	Description
8	Advances the enumerator to the next element of the collection.
9	Return Value: true if the enumerator was successfully advanced to the next
10	element; false if the enumerator has passed the end of the collection.
11	After an enumerator is created or after a call to
12	System.Collections.Specialized.StringEnumerator.Reset, an enumerator is
13	positioned before the first element of the collection, and the first call to
14	System.Collections.Specialized.StringEnumerator.MoveNext moves the
15	enumerator over the first element of the collection.
16	Reset
17	
18	[C#] public void Reset();
19	[C++] public: void Reset();
20	[VB] Public Sub Reset()
21	[JScript] public function Reset();
22	
23	
24	System.Globalization Namespace
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The System.Globalization namespace contains classes that define culturerelated information, such as the language, the country/region, the calendars in use, the format patterns for dates, currency and numbers, and the sort order for strings.

The .NET Framework is introducing a distinction to the globalization world. The concept that was previously referred to as "Locale" has been split apart into two separate types that allows much more flexibility. The Locale concept is represented as two different types in the .NET world: CultureInfo and RegionInfo. CultureInfo represents information about the users' culture, what language they specify, how they prefer numbers formatted, what calendar they use, etc. The RegionInfo class represents information about where a person physically is, what currency symbol they use, if they use metric or not, etc.

The following is a more detailed description of the System.Globalization namespace, identifying various classes, interfaces, enumerations, and so forth contained in the System.Globalization namespace.

System. Globalization

The namespace contains classes that define culture-related information, including the language, the country/region, the calendars in use, the format patterns for dates, currency and numbers, and the sort order for strings.

Description

The **System.Globalization** namespace contains classes that define culturerelated information, including the language, the country/region, the calendars in use, the format patterns for dates, currency and numbers, and the sort order for strings.

Calendar class (System.Globalization)

1	
2	
3	Description
4	Represents time in divisions, such as weeks, months, and years.
5	A calendar divides time into measures, such as weeks, months, and years.
6	The number, length, and start of the divisions vary in each calendar.
7	
8	[C#] public const int CurrentEra;
9	[C++] public: const int CurrentEra;
10	[VB] Public Const CurrentEra As Integer
11	[JScript] public var CurrentEra : int;
12	
13	Description
14	Represents the current era for the current calendar.
15	Constructors:
16	Calendar
17	Example Syntax:
18	
19	[C#] protected Calendar();
20	[C++] protected: Calendar();
21	[VB] Protected Sub New()
22	[JScript] protected function Calendar();
23	
24	Description
25	Initializes a new instance of the System.Globalization.Calendar class.

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1	Properties:
2	Eras
3	
4	[C#] public abstract int[] Eras {get;}
5	[C++] public:property virtual int get_Eras() = 0;
6	[VB] MustOverride Public ReadOnly Property Eras As Integer ()
7	[JScript] public abstract function get Eras(): int[];
8	
9	Description
10	When implemented by a derived class, gets the list of eras in the current
11	calendar.
12	TwoDigitYearMax
13	
14	[C#] public virtual int TwoDigitYearMax {get; set;}
15	[C++] public:property virtual int get_TwoDigitYearMax();public:property
16	virtual void set_TwoDigitYearMax(int);
17	[VB] Overridable Public Property TwoDigitYearMax As Integer
18	[JScript] public function get TwoDigitYearMax(): int;public function set
19	TwoDigitYearMax(int);
20	
21	Description
22	Gets or sets the last year of a 100-year range that can be represented by a 2
23	digit year.
24	This property allows a 2-digit year to be properly translated to a 4-digit
25	year. For example, if this property is set to 2029, the 100-year range is from 1930

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to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit 1 value of 29 is interpreted as 2029. 2 Methods: 3 AddDays 5 [C#] public virtual DateTime AddDays(DateTime time, int days); 6 [C++] public: virtual DateTime AddDays(DateTime time, int days); 7 [VB] Overridable Public Function AddDays(ByVal time As DateTime, ByVal 8 days As Integer) As DateTime 9 [JScript] public function AddDays(time : DateTime, days : int) : DateTime; 10 11 Description 12 Returns a System. Date Time that is the specified number of days away 13 from the specified System.DateTime. 14 Return Value: The System.DateTime that results from adding the specified 15 number of days to the specified **System.DateTime**. 16 The days value is rounded to the nearest millisecond before it is added to 17 the specified **System.DateTime** . If days is negative, the resulting 18 System.DateTime would be earlier than the specified System.DateTime. The 19 **System.DateTime** instance to add. The number of days to add. 20 AddHours 21 22 [C#] public virtual DateTime AddHours(DateTime time, int hours); 23 [C++] public: virtual DateTime AddHours(DateTime time, int hours);

[VB] Overridable Public Function AddHours(ByVal time As DateTime, ByVal

2	[JScript] public function AddHours(time : DateTime, hours : int) : DateTime;
3	
4	Description
5	Returns a System.DateTime that is the specified number of hours away
6	from the specified System.DateTime.
7	Return Value: The System.DateTime that results from adding the specified
8	number of hours to the specified System.DateTime.
9	The hours value is rounded to the nearest millisecond before it is added to
10	the specified System.DateTime . If hours is negative, the resulting
11	System.DateTime would be earlier than the specified System.DateTime . The
12	System.DateTime instance to add. The number of hours to add.
13	AddMilliseconds
14	
15	[C#] public virtual DateTime AddMilliseconds(DateTime time, double
16	milliseconds);
17	[C++] public: virtual DateTime AddMilliseconds(DateTime time, double
18	milliseconds);
19	[VB] Overridable Public Function AddMilliseconds(ByVal time As DateTime,
20	ByVal milliseconds As Double) As DateTime
21	[JScript] public function AddMilliseconds(time : DateTime, milliseconds : double)
22	: DateTime;
23	
24	Description

hours As Integer) As DateTime

25

Returns a **System.DateTime** that is the specified number of milliseconds away from the specified **System.DateTime**.

Return Value: The System.DateTime that results from adding the specified number of milliseconds to the specified System.DateTime.

The *milliseconds* value is rounded to the nearest integer before it is added to the specified **System.DateTime**. If *milliseconds* is negative, the resulting **System.DateTime** would be earlier than the specified **System.DateTime**. The **System.DateTime** instance to add. The number of milliseconds to add.

AddMinutes

[C#] public virtual DateTime AddMinutes(DateTime time, int minutes);

[C++] public: virtual DateTime AddMinutes(DateTime time, int minutes);

[VB] Overridable Public Function AddMinutes(ByVal time As DateTime, ByVal minutes As Integer) As DateTime

[JScript] public function AddMinutes(time : DateTime, minutes : int) : DateTime;

Description

Returns a **System.DateTime** that is the specified number of minutes away from the specified **System.DateTime**.

Return Value: The System.DateTime that results from adding the specified number of minutes to the specified System.DateTime.

The *minutes* value is rounded to the nearest millisecond before it is added to the specified **System.DateTime**. If *minutes* is negative, the resulting **System.DateTime** would be earlier than the specified **System.DateTime**. The **System.DateTime** instance to add. The number of minutes to add.

AddMonths

[C#] public abstract DateTime AddMonths(DateTime time, int months);
[C++] public: virtual DateTime AddMonths(DateTime time, int months) = 0;
[VB] MustOverride Public Function AddMonths(ByVal time As DateTime,
ByVal months As Integer) As DateTime
[JScript] public abstract function AddMonths(time: DateTime, months: int):
DateTime;

Description

When implemented by a derived class, returns a **System.DateTime** that is the specified number of months away from the specified **System.DateTime**.

Return Value: The **System.DateTime** that results from adding the specified number of months to the specified **System.DateTime**.

The year part of the resulting **System.DateTime** is affected if the resulting month is beyond the last month of the current year. The day part of the resulting **System.DateTime** is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of months to add.

AddSeconds

[C#] public virtual DateTime AddSeconds(DateTime time, int seconds);[C++] public: virtual DateTime AddSeconds(DateTime time, int seconds);

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[VB] Overridable Public Function AddSeconds(ByVal time As DateTime, By	/Va
seconds As Integer) As DateTime	

[JScript] public function AddSeconds(time : DateTime, seconds : int) : DateTime;

Description

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Returns a System.DateTime that is the specified number of seconds away from the specified System.DateTime.

Return Value: The System.DateTime that results from adding the specified number of seconds to the specified System.DateTime.

The value parameter is rounded to the nearest millisecond before it is added to the specified System.DateTime . If value is negative, the resulting System.DateTime would be earlier than the specified System.DateTime . The **System.DateTime** instance to add. The number of seconds to add.

AddWeeks

[C#] public virtual DateTime AddWeeks(DateTime time, int weeks);

[C++] public: virtual DateTime AddWeeks(DateTime time, int weeks);

[VB] Overridable Public Function AddWeeks(ByVal time As DateTime, ByVal weeks As Integer) As DateTime

[JScript] public function AddWeeks(time : DateTime, weeks : int) : DateTime;

Description

Returns a System.DateTime that is the specified number of weeks away from the specified System.DateTime.

Return Value: The System.DateTime that results from adding the specified number of weeks to the specified System.DateTime.

If weeks is negative, the resulting **System.DateTime** would be earlier than the specified **System.DateTime**. The **System.DateTime** instance to add. The number of weeks to add.

AddYears

[C#] public abstract DateTime AddYears(DateTime time, int years);
[C++] public: virtual DateTime AddYears(DateTime time, int years) = 0;
[VB] MustOverride Public Function AddYears(ByVal time As DateTime, ByVal years As Integer) As DateTime
[JScript] public abstract function AddYears(time: DateTime, years: int):
DateTime;

Description

When implemented by a derived class, returns a **System.DateTime** that is the specified number of years away from the specified **System.DateTime**.

Return Value: The **System.DateTime** that results from adding the specified number of years to the specified **System.DateTime**.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of years to add.

GetDayOfMonth

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[C#] public abstract int GetDayOfMonth(DateTime time);

[C++] public: virtual int GetDayOfMonth(DateTime time) = 0;

[VB] MustOverride Public Function GetDayOfMonth(ByVal time As DateTime)

As Integer

[JScript] public abstract function GetDayOfMonth(time: DateTime): int;

Description

When implemented by a derived class, gets the day of the month in the specified **System.DateTime**.

Return Value: An integer that represents the day of the month in time. The System.DateTime instance to read.

GetDayOfWeek

[C#] public abstract DayOfWeek GetDayOfWeek(DateTime time);

[C++] public: virtual DayOfWeek GetDayOfWeek(DateTime time) = 0;

[VB] MustOverride Public Function GetDayOfWeek(ByVal time As DateTime)

As DayOfWeek

 $[JScript]\ public\ abstract\ function\ GetDayOfWeek (time: DateTime): DayOfWeek;$

Description

When implemented by a derived class, gets the day of the week in the specified **System.DateTime**.

Return Value: A System.DayOfWeek value that represents the day of the week in time. 2 The System.DayOfWeek values are Sunday, Monday, Tuesday, 3 Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to 4 read. 5 GetDayOfYear 6 7 [C#] public abstract int GetDayOfYear(DateTime time); 8 [C++] public: virtual int GetDayOfYear(DateTime time) = 0; 9 [VB] MustOverride Public Function GetDayOfYear(ByVal time As DateTime) As 10 Integer 11 [JScript] public abstract function GetDayOfYear(time : DateTime) : int; 12 13 Description 14 When implemented by a derived class, gets the day of the year in the 15 specified System.DateTime. 16 Return Value: An integer that represents the day of the year in time. The 17 **System.DateTime** instance to read. 18 GetDaysInMonth 19 20 [C#] public virtual int GetDaysInMonth(int year, int month); 21 [C++] public: virtual int GetDaysInMonth(int year, int month); 22 [VB] Overridable Public Function GetDaysInMonth(ByVal year As Integer, 23 ByVal month As Integer) As Integer 24 [JScript] public function GetDaysInMonth(year: int, month: int): int; Gets the

number of days in the specified month.

Description

Gets the number of days in the month specified by the *year* and *month* parameters.

Return Value: The number of days in the specified month in the specified year in the current era.

For example, in the Gregorian calendar, this method might return 28 or 29 for February (month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month.

GetDaysInMonth

[C#] public abstract int GetDaysInMonth(int year, int month, int era);
[C++] public: virtual int GetDaysInMonth(int year, int month, int era) = 0;
[VB] MustOverride Public Function GetDaysInMonth(ByVal year As Integer,
ByVal month As Integer, ByVal era As Integer) As Integer
[JScript] public abstract function GetDaysInMonth(year: int, month: int, era: int): int;

Description

the specified era.

When implemented by a derived class, gets the number of days in the month specified by the *year*, *month*, and *era* parameters.

Return Value: The number of days in the specified month in the specified year in

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For example, in the Gregorian calendar, this method might return 28 or 29 for February (month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public virtual int GetDaysInYear(int year);

[C++] public: virtual int GetDaysInYear(int year);

[VB] Overridable Public Function GetDaysInYear(ByVal year As Integer) As Integer

[JScript] public function GetDaysInYear(year: int): int; Gets the number of days in the specified year.

Description

Gets the number of days in the year specified by the year parameter.

Return Value: The number of days in the specified year in the current era.

For example, in the Gregorian calendar, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year.

GetDaysInYear

[C#] public abstract int GetDaysInYear(int year, int era);

[C++] public: virtual int GetDaysInYear(int year, int era) = 0;

[VB] MustOverride Public Function GetDaysInYear(ByVal year As Integer,

ByVal era As Integer) As Integer

[JScript] public abstract function GetDaysInYear(year: int, era: int): int;

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Description

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When implemented by a derived class, gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

For example, in the Gregorian calendar, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

[C#] public abstract int GetEra(DateTime time);

[C++] public: virtual int GetEra(DateTime time) = 0;

[VB] MustOverride Public Function GetEra(ByVal time As DateTime) As Integer [JScript] public abstract function GetEra(time : DateTime) : int;

Description

When implemented by a derived class, gets the era in the specified **System.DateTime** instance.

Return Value: An integer that represents the era in time. The **System.DateTime** instance to read.

GetHour

[C#] public virtual int GetHour(DateTime time);

[C++] public: virtual int GetHour(DateTime time);

[VB] Overridable Public Function GetHour(ByVal time As DateTime) As Integer

1	[JScript] public function GetHour(time : DateTime) : int;
2	
3	Description
4	Gets the hours value in the specified System.DateTime.
5	Return Value: An integer from 0 to 23 that represents the hour in time. The
6	System.DateTime instance to read.
7	GetMilliseconds
8	
9	[C#] public virtual double GetMilliseconds(DateTime time);
10	[C++] public: virtual double GetMilliseconds(DateTime time);
11	[VB] Overridable Public Function GetMilliseconds(ByVal time As DateTime) As
12	Double
13	[JScript] public function GetMilliseconds(time : DateTime) : double;
14	
15	Description
16	Gets the milliseconds value in the specified System.DateTime .
17	Return Value: An integer that represents the milliseconds in time.
18	The returned value is an integer from 0 to 999. The System.DateTime
19	instance to read.
20	GetMinute
21	
22	[C#] public virtual int GetMinute(DateTime time);
23	[C++] public: virtual int GetMinute(DateTime time);
24	[VB] Overridable Public Function GetMinute(ByVal time As DateTime) As
25	Integer

1	[JScript] public function GetMinute(time: Date i ime): int;
2	
3	Description
4	Gets the minutes value in the specified System.DateTime.
5	Return Value: An integer that represents the minutes in time.
6	The returned value is an integer from 0 to 59. The System.DateTime
7	instance to read.
8	GetMonth
9	
10	[C#] public abstract int GetMonth(DateTime time);
11	[C++] public: virtual int GetMonth(DateTime time) = 0;
12	[VB] MustOverride Public Function GetMonth(ByVal time As DateTime) As
13	Integer
14	[JScript] public abstract function GetMonth(time : DateTime) : int;
15	
16	Description
17	When implemented by a derived class, gets the month in the specified
18	System.DateTime .
19	Return Value: An integer that represents the month in time. The
20	System.DateTime instance to read.
21	GetMonthsInYear
22	
23	[C#] public virtual int GetMonthsInYear(int year);
24	[C++] public: virtual int GetMonthsInYear(int year);
25	[VB] Overridable Public Function GetMonthsInYear(ByVal year As Integer) As

1 2 3 4 5 6 7 7 8 8 9 10 11 12	[JScript] public function GetMonthsInYear(year: int): int; Gets the number of months in the specified year.
3 4 5 6 7 8 8 9 10 11	
4 5 6 7 8 9 10 11 12	months in the specified year.
5 6 7 8 9 10 11	
6 7 8 9 10 11	
7 8 9 10 11 12	Description
9 10 11	Gets the number of months in the year specified by the <i>year</i> parameter.
9 10 11	Return Value: The number of months in the specified year in the current era. An
10 11 12	integer that represents the year.
11	GetMonthsInYear
12	
	[C#] public abstract int GetMonthsInYear(int year, int era);
13	[C++] public: virtual int GetMonthsInYear(int year, int era) = 0;
	[VB] MustOverride Public Function GetMonthsInYear(ByVal year As Integer,
14	ByVal era As Integer) As Integer
15	[JScript] public abstract function GetMonthsInYear(year : int, era : int) : int;
16	
17	Description
18	When implemented by a derived class, gets the number of months in the
19	year specified by the <i>year</i> and <i>era</i> parameters.
20	Return Value: The number of months in the specified year in the specified era. Ar
21	integer that represents the year. An integer that represents the era.
22	GetSecond
23	,
24	[C#] public virtual int GetSecond(DateTime time);
25	

1	[VB] Overridable Public Function GetSecond(ByVal time As DateTime) As
2	Integer
3	[JScript] public function GetSecond(time : DateTime) : int;
4	
5	Description
6	Gets the seconds value in the specified System.DateTime.
7	Return Value: An integer that represents the seconds in time.
8	The returned value is an integer from 0 to 59. The System.DateTime
9	instance to read.
10	GetWeekOfYear
11	
12	[C#] public virtual int GetWeekOfYear(DateTime time, CalendarWeekRule rule
13	DayOfWeek firstDayOfWeek);
14	[C++] public: virtual int GetWeekOfYear(DateTime time, CalendarWeekRule
15	rule, DayOfWeek firstDayOfWeek);
16	[VB] Overridable Public Function GetWeekOfYear(ByVal time As DateTime,
17	ByVal rule As CalendarWeekRule, ByVal firstDayOfWeek As DayOfWeek) As
18	Integer
19	[JScript] public function GetWeekOfYear(time : DateTime, rule :
20	CalendarWeekRule, firstDayOfWeek : DayOfWeek) : int;
21	
22	Description
23	Gets the week of the year that includes the date in the specified
24	System.DateTime .
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System.Globalization.CultureInfo.DateTimeFormat contains the default

System.DayOfWeek value that represents the first day of the week for a specific culture. The System.DateTime instance to read. A

System.Globalization.CalendarWeekRule value that defines a calendar week. A System.DayOfWeek value that represents the first day of the week.

GetYear

[C#] public abstract int GetYear(DateTime time);

[C++] public: virtual int GetYear(DateTime time) = 0;

[VB] MustOverride Public Function GetYear(ByVal time As DateTime) As

Integer

[JScript] public abstract function GetYear(time : DateTime) : int;

Description

When implemented by a derived class, gets the year in the specified System.DateTime.

Return Value: An integer that represents the year in time. The **System.DateTime** instance to read.

IsLeapDay

[C#] public virtual bool IsLeapDay(int year, int month, int day);

[C++] public: virtual bool IsLeapDay(int year, int month, int day);

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[VB] Overridable Public Function IsLeapDay(ByVal year As Integer, ByVal 1 month As Integer, ByVal day As Integer) As Boolean 2 [JScript] public function IsLeapDay(year: int, month: int, day: int): Boolean; 3 Determines whether a date is a leap day. 4 5 Description 6 Determines whether the date specified by the year, month, and day 7 parameters is a leap day. 8 Return Value: true if the specified day is a leap day; otherwise, false. 9 A leap year has a different number of days than a standard calendar year, in order to make up for the difference between the calendar year and the actual time that the earth rotates around the sun. Each System.Globalization.Calendar 12 implementation defines leap years differently. An integer that represents the year. 13 An integer that represents the month. An integer that represents the day. 14 IsLeapDay 15 16

[C#] public abstract bool IsLeapDay(int year, int month, int day, int era); [C++] public: virtual bool IsLeapDay(int year, int month, int day, int era) = 0; [VB] MustOverride Public Function IsLeapDay(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean [JScript] public abstract function IsLeapDay(year: int, month: int, day: int, era: int): Boolean;

Description

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When implemented by a derived class, determines whether the date specified by the year, month, day, and era parameters is a leap day.

Return Value: true if the specified day is a leap day; otherwise, false. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public virtual bool IsLeapMonth(int year, int month);

[C++] public: virtual bool IsLeapMonth(int year, int month);

[VB] Overridable Public Function IsLeapMonth(ByVal year As Integer, ByVal)

[JScript] public function IsLeapMonth(year: int, month: int): Boolean;

Description

month As Integer) As Boolean

Determines whether a month is a leap month.

Determines whether the month specified by the *year* and *month* parameters is a leap month.

Return Value: true if the specified month is a leap month; otherwise, false.

A leap year has a different number of days than a standard calendar year, in order to make up for the difference between the calendar year and the actual time that the earth rotates around the sun. Each **System.Globalization.Calendar** implementation defines leap years differently. An integer that represents the year. An integer that represents the month.

IsLeapMonth

1	
2	[C#] public abstract bool IsLeapMonth(int year, int month, int era);
3	[C++] public: virtual bool IsLeapMonth(int year, int month, int era) = 0;
4	[VB] MustOverride Public Function IsLeapMonth(ByVal year As Integer, ByVal
5	month As Integer, ByVal era As Integer) As Boolean
6	[JScript] public abstract function IsLeapMonth(year: int, month: int, era: int):
7	Boolean;
8	
9	Description
10	When implemented by a derived class, determines whether the month
11	specified by the year, month, and era parameters is a leap month.
12	Return Value: true if the specified month is a leap month; otherwise, false. An
13	integer that represents the year. An integer that represents the month. An integer
14	that represents the era.
15	IsLeapYear
16	
17	[C#] public virtual bool IsLeapYear(int year);
18	[C++] public: virtual bool IsLeapYear(int year);
19	[VB] Overridable Public Function IsLeapYear(ByVal year As Integer) As
20	Boolean
21	[JScript] public function IsLeapYear(year: int): Boolean; Determines whether a
22	year is a leap year.
23	
24	Description

Determines whether the year specified by the *year* parameter is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

A leap year has a different number of days than a standard calendar year, in order to make up for the difference between the calendar year and the actual time that the earth rotates around the sun. Each **System.Globalization.Calendar** implementation defines leap years differently. An integer that represents the year.

IsLeapYear

[C#] public abstract bool IsLeapYear(int year, int era);

[C++] public: virtual bool IsLeapYear(int year, int era) = 0;

[VB] MustOverride Public Function IsLeapYear(ByVal year As Integer, ByVal era As Integer) As Boolean

[JScript] public abstract function IsLeapYear(year: int, era: int): Boolean;

Description

When implemented by a derived class, determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public virtual DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond);

[C++] public: virtual DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond);

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[VB] Overridable Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer) As DateTime [JScript] public function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int): DateTime; Returns a System.DateTime that is set to the specified date and time.

Description

Returns a **System.DateTime** that is set to the specified date and time in the current era.

Return Value: The **System.DateTime** instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond.

ToDateTime

[C#] public abstract DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: virtual DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era) = 0;

[VB] MustOverride Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

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[JScript] public abstract function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime;

Description

When implemented by a derived class, returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public virtual int ToFourDigitYear(int year);

[C++] public: virtual int ToFourDigitYear(int year);

[VB] Overridable Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public function ToFourDigitYear(year: int): int;

Description

Converts the specified two-digit year to a four-digit year by using the **System.Globalization.Calendar.TwoDigitYearMax** property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

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System.Globalization
100-year range that can be residetermined by finding the sol
year range. For example, if Systems is set to 2029, the 100-year range of 30 is interpreted as 1930, which two-digit integer that represent CalendarWeekRule en ToString

Description
Defines different rules

System.Globalization.Calendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within that 100-year range. For example, if System.Globalization.Calendar.TwoDigitYearMax is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029. A two-digit integer that represents the year to convert.

CalendarWeekRule enumeration (System.Globalization)
ToString

Defines different rules for determining the first week of the year.

These calendar week rules depend on the **System.DayOfWeek** value that is designated as the first day of the week. The

System.Globalization.DateTimeFormatInfo.FirstDayOfWeek property provides the default value for a culture, but any System.DayOfWeek value can be specified as the first day of the week in

 $System. Globalization. Calendar. Get Week Of Year (System. Date Time, System. Globalization. Calendar Week Rule, System. Day Of Week) \ .$

ToString

[C#] public const CalendarWeekRule FirstDay;

[C++] public: const CalendarWeekRule FirstDay;

[VB] Public Const FirstDay As CalendarWeekRule

[JScript] public var FirstDay: CalendarWeekRule; 2 Description 3 Indicates that the first week of the year starts on the first day of the year and ends before the following designated first day of the week. The value is 0. **ToString** 7 [C#] public const CalendarWeekRule FirstFourDayWeek; 8 [C++] public: const CalendarWeekRule FirstFourDayWeek; 9 [VB] Public Const FirstFourDayWeek As CalendarWeekRule 10 [JScript] public var FirstFourDayWeek: CalendarWeekRule; 11 12 Description 13 Indicates that the first week of the year is the first week with four or more 14 days before the designated first day of the week. The value is 2. 15 **ToString** 16 17 [C#] public const CalendarWeekRule FirstFullWeek; 18 [C++] public: const CalendarWeekRule FirstFullWeek; 19 [VB] Public Const FirstFullWeek As CalendarWeekRule 20 [JScript] public var FirstFullWeek: CalendarWeekRule; 21 22 Description 23 Indicates that the first week of the year begins on the first occurrence of the 24 designated first day of the week on or after the first day of the year. The value is 1.

1	CompareInfo class (System.Globalization)
2	ToString
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4	
5	Description
6	Implements a set of methods for culture-sensitive string comparisons.
7	The System.Globalization.CultureInfo class includes a
8	System.Globalization.CultureInfo.CompareInfo property that is an instance of
9	this class.
10	LCID
11	ToString
12	
13	[C#] public int LCID {get;}
14	[C++] public:property int get_LCID();
15	[VB] Public ReadOnly Property LCID As Integer
16	[JScript] public function get LCID(): int;
17	
18	Description
19	Gets the properly formed culture identifier for the current
20	System.Globalization.CompareInfo instance.
21	Compare
22	
23	[C#] public virtual int Compare(string string1, string string2);
24	[C++] public: virtual int Compare(String* string1, String* string2);
25	[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal

1	string2 As String) As Integer
2	[JScript] public function Compare(string1 : String, string2 : String) : int;
3	Compares two strings.
4	
5	Description
6	Compares two strings using the default
7	System.Globalization.CompareOptions value.
8	Return Value: Value Condition zero The two strings are equal. The first string to
9	compare. The second string to compare.
10	Compare
11	
12	[C#] public virtual int Compare(string string1, string string2, CompareOptions
13	options);
14	[C++] public: virtual int Compare(String* string1, String* string2,
15	CompareOptions options);
16	[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal
17	string2 As String, ByVal options As CompareOptions) As Integer
18	[JScript] public function Compare(string1 : String, string2 : String, options :
19	CompareOptions): int;
20	
21	Description
22	Compares two strings using the specified
23	System.Globalization.CompareOptions value.
24	Return Value: Value Condition zero The two strings are equal. The first string to
25	compare. The second string to compare. The

System.Globalization.CompareOptions value that defines how the strings should be compared.

Compare

[C#] public virtual int Compare(string string1, int offset1, string string2, int offset2);

[C++] public: virtual int Compare(String* string1, int offset1, String* string2, int offset2);

[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal offset1 As Integer, ByVal string2 As String, ByVal offset2 As Integer) As Integer [JScript] public function Compare(string1 : String, offset1 : int, string2 : String, offset2 : int) : int;

Description

Compares the tail section of a string with the tail section of another string.

Return Value: Value Condition zero The two strings are equal. The first string to compare. The zero-based index of the character in string1 at which to start comparing. The second string to compare. The zero-based index of the character in string2 at which to start comparing.

Compare

[C#] public virtual int Compare(string string1, int offset1, string string2, int offset2, CompareOptions options);
[C++] public: virtual int Compare(String* string1, int offset1, String* string2, int offset2, CompareOptions options);

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[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal offset1 As Integer, ByVal string2 As String, ByVal offset2 As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function Compare(string1 : String, offset1 : int, string2 : String, offset2 : int, options : CompareOptions) : int;

Description

Compares the tail section of a string with the tail section of another string using the specified **System.Globalization.CompareOptions** value.

Return Value: Value Condition zero The two strings are equal. The first string to compare. The zero-based index of the character in string1 at which to start comparing. The second string to compare. The zero-based index of the character in string2 at which to start comparing. The System.Globalization.CompareOptions value that defines how the strings should be compared.

Compare

[C#] public virtual int Compare(string string1, int offset1, int length1, string string2, int offset2, int length2);

[C++] public: virtual int Compare(String* string1, int offset1, int length1, String* string2, int offset2, int length2);

[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal offset1 As Integer, ByVal length1 As Integer, ByVal string2 As String, ByVal offset2 As Integer, ByVal length2 As Integer) As Integer

[JScript] public function Compare(string1 : String, offset1 : int, length1 : int, string2 : String, offset2 : int, length2 : int) : int;

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Description

Compares a section of one string with a section of another string.

Return Value: Value Condition zero The two strings are equal. The first string to compare. The zero-based index of the character in string1 at which to start comparing. The number of consecutive characters in string1 to compare. The second string to compare. The zero-based index of the character in string2 at which to start comparing. The number of consecutive characters in string2 to compare.

Compare

[C#] public virtual int Compare(string string1, int offset1, int length1, string string2, int offset2, int length2, CompareOptions options);
[C++] public: virtual int Compare(String* string1, int offset1, int length1, String* string2, int offset2, int length2, CompareOptions options);
[VB] Overridable Public Function Compare(ByVal string1 As String, ByVal offset1 As Integer, ByVal length1 As Integer, ByVal string2 As String, ByVal offset2 As Integer, ByVal length2 As Integer, ByVal options As CompareOptions)
As Integer
[JScript] public function Compare(string1 : String, offset1 : int, length1 : int, string2 : String, offset2 : int, length2 : int, options : CompareOptions) : int;

Description

Compares a section of one string with a section of another string using the specified **System.Globalization.CompareOptions** value.

Return Value: Value Condition zero The two strings are equal. The first string to compare. The zero-based index of the character in string1 at which to start comparing. The number of consecutive characters in string1 to compare. The second string to compare. The zero-based index of the character in string2 at which to start comparing. The number of consecutive characters in string2 to compare. The System.Globalization.CompareOptions value that defines how the strings should be compared.

Equals

[C#] public override bool Equals(object value);

[C++] public: bool Equals(Object* value);

[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean [JScript] public override function Equals(value : Object) : Boolean;

Description

Determines whether the specified **System.Object** is the same instance as the current **System.Globalization.CompareInfo** .

Return Value: true if the specified System.Object is the same instance as the current System.Globalization.CompareInfo; otherwise, false.

This method overrides System.Object.Equals(System.Object). The System.Object to compare with the current System.Globalization.CompareInfo.

GetCompareInfo

[C#] public static CompareInfo GetCompareInfo(int culture);

[C++] public: static CompareInfo* GetCompareInfo(int culture);

1	[VB] Public
2	CompareIn
3	[JScript] pu
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5	Description
6	Initi
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8	Return Val
9	that is asso
10	comparisor
11	representin
12	Get
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14	[C#] public
15	[C++] pub]
16	[VB] Publi
17	CompareIr
18	[JScript] p
19	
20	Descriptio
21	Init
22	that is asso
	11

VB] Public Shared Function GetCompareInfo(ByVal culture As Integer) A	LS
CompareInfo	

ablic static function GetCompareInfo(culture : int) : CompareInfo;

alizes a new instance of the System. Globalization. CompareInfo class ciated with the culture having the specified identifier.

ue: A new instance of the System. Globalization. CompareInfo class ciated with the culture having the specified identifier and uses string n methods in the current System.Reflection.Assembly . An integer g the culture identifier.

CompareInfo

c static CompareInfo GetCompareInfo(string name);

lic: static CompareInfo* GetCompareInfo(String* name);

ic Shared Function GetCompareInfo(ByVal name As String) As

ıfo

ublic static function GetCompareInfo(name : String) : CompareInfo;

n

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ializes a new instance of the System. Globalization. CompareInfo class ociated with the culture having the specified name.

Return Value: A new instance of the System. Globalization. CompareInfo class that is associated with the culture having the specified name and uses string

comparison methods in the current **System.Reflection.Assembly** . A **System.String** representing the culture name.

GetCompareInfo

[C#] public static CompareInfo GetCompareInfo(int culture, Assembly); [C++] public: static CompareInfo* GetCompareInfo(int culture, Assembly* assembly);

[VB] Public Shared Function GetCompareInfo(ByVal culture As Integer, ByVal assembly As Assembly) As CompareInfo

[JScript] public static function GetCompareInfo(culture : int, assembly :

Assembly): CompareInfo; Initializes a new instance of the

 ${\bf System. Globalization. Compare Info}\ class.$

Description

Initializes a new instance of the **System.Globalization.CompareInfo** class that is associated with the culture having the specified identifier and uses string comparison methods in the specified **System.Reflection.Assembly**.

Return Value: A new instance of the **System.Globalization.CompareInfo** class that is associated with the specified culture and uses string comparison methods in the specified **System.Reflection.Assembly**.

The assembly parameter must be of the same type as System.Reflection.Module.Assembly. An integer representing the culture identifier. An System.Reflection.Assembly that contains the string comparison methods to use.

GetCompareInfo

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1 [C#] public static CompareInfo GetCompareInfo(string name, Assembly 2 assembly); 3 [C++] public: static CompareInfo* GetCompareInfo(String* name, Assembly* assembly); 5 [VB] Public Shared Function GetCompareInfo(ByVal name As String, ByVal 6 assembly As Assembly) As CompareInfo 7 [JScript] public static function GetCompareInfo(name: String, assembly: 8 Assembly): CompareInfo; 9 10 Description 11 Initializes a new instance of the System. Globalization. CompareInfo class 12 that is associated with the culture having the specified name and uses string 13 comparison methods in the specified System.Reflection.Assembly . 14 Return Value: A new instance of the System. Globalization. CompareInfo class 15 that is associated with the culture having the specified name and uses string comparison methods in the specified System.Reflection.Assembly . 17 18

The assembly parameter must be of the same type as
System.Reflection.Module.Assembly . A System.String representing the culture
name. An System.Reflection.Assembly that contains the string comparison
methods to use.

GetHashCode

[C#] public override int GetHashCode();

[C++] public: int GetHashCode();

1	[VB] Overrides Public Function GetHashCode() As Integer
2	[JScript] public override function GetHashCode(): int;
3	
4	Description
5	Serves as a hash function for the current
6	System.Globalization.CompareInfo instance, suitable for use in hashing
7	algorithms and data structures, such as a hash table.
8	Return Value: A hash code for the current System. Globalization. CompareInfo
9	instance.
10	This method overrides System.Object.GetHashCode.
11	GetSortKey
12	
13	[C#] public virtual SortKey GetSortKey(string source);
14	[C++] public: virtual SortKey* GetSortKey(String* source);
15	[VB] Overridable Public Function GetSortKey(ByVal source As String) As
16	SortKey
17	[JScript] public function GetSortKey(source : String) : SortKey;
18	
19	Description
20	Gets the System.Globalization.SortKey of the specified System.String.
21	Return Value: The System.Globalization.SortKey of the specified System.String
22	•
23	Each character in a string is given several categories of sort weights,
24	including script, alphabetic, case, and diacritic weights. A sort key serves as the
25	repository of these weights for a particular string. For example, a sort key might

contain a string of alphabetic weights, followed by a string of case weights, and so on. The **System.String** for which to get the **System.Globalization.SortKey**.

GetSortKey

[C#] public virtual SortKey GetSortKey(string source, CompareOptions options); [C++] public: virtual SortKey* GetSortKey(String* source, CompareOptions options);

[VB] Overridable Public Function GetSortKey(ByVal source As String, ByVal options As CompareOptions) As SortKey

[JScript] public function GetSortKey(source : String, options : CompareOptions) : SortKey; Gets the System.Globalization.SortKey of a System.String .

Description

Gets the System.Globalization.SortKey of the specified System.String using the specified System.Globalization.CompareOptions value.

Return Value: The System.Globalization.SortKey of the specified System.String using the specified System.Globalization.CompareOptions value.

Each character in a string is given several categories of sort weights, including script, alphabetic, case, and diacritic weights. A sort key serves as the repository of these weights for a particular string. For example, a sort key might contain a string of alphabetic weights, followed by a string of case weights, and so on. The **System.String** whose **System.Globalization.SortKey** to get. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IndexOf

1	
2	[C#] public virtual int IndexOf(string source, char value);
3	[C++] public: virtual int IndexOf(String* source,wchar
4	[VB] Overridable Public Function IndexOf(ByVal source
5	As Char) As Integer
6	[JScript] public function IndexOf(source : String, value :
7	zero-based index of the first occurrence of a value within
8	within a portion of it.
9	
10	Description
11	Searches for the specified character and returns the
12	first occurrence within the entire source System.String.
13	Return Value: The zero-based index of the first occurrence
14	entire source, if found; otherwise, -1.
15	The source System.String is searched forward sta
16	the System.String and ending at the end of the System.S
17	System.String to search. The character to locate within s
18	IndexOf
19	
20	[C#] public virtual int IndexOf(string source, string value
21	[C++] public: virtual int IndexOf(String* source, String*
22	[VB] Overridable Public Function IndexOf(ByVal source
23	As String) As Integer
24	[JScript] public function IndexOf(source : String, value :

source, __wchar_t value); f(ByVal source As String, ByVal value String, value: Char): int; Returns the f a value within a System.String or r and returns the zero-based index of the ystem.String. e first occurrence of value within the hed forward starting at the beginning of of the System.String. The o locate within source. rce, string value); source, String* value); Of(ByVal source As String, ByVal value : String, value : String) : int;

Description

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Searches for the specified substring and returns the zero-based index of the first occurrence within the entire source **System.String**.

Return Value: The zero-based index of the first occurrence of value within the entire source, if found; otherwise, -1.

The source **System.String** is searched forward starting at the beginning of the **System.String** and ending at the end of the **System.String**. The **System.String** to search. The **System.String** to locate within *source*.

IndexOf

[C#] public virtual int IndexOf(string source, char value, CompareOptions options);

[C++] public: virtual int IndexOf(String* source, __wchar_t value,

CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value

As Char, ByVal options As CompareOptions) As Integer

[JScript] public function IndexOf(source : String, value : Char, options :

CompareOptions): int;

Description

Searches for the specified character and returns the zero-based index of the first occurrence within the entire source **System.String** using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the first occurrence of value within the

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entire source using the specified System. Globalization. Compare Options value, if found; otherwise, -1.

The source System.String is searched forward starting at the beginning of the System.String and ending at the end of the System.String. The System.String to search. The character to locate within source. The System. Globalization. Compare Options value that defines how the strings should be compared.

IndexOf

[C#] public virtual int IndexOf(string source, char value, int startIndex); [C++] public: virtual int IndexOf(String* source, __wchar_t value, int startIndex); [VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer) As Integer [JScript] public function IndexOf(source : String, value : Char, startIndex : int) : int;

Description

Searches for the specified character and returns the zero-based index of the first occurrence within the section of the source System.String that extends from the specified index to the end of the System.String. Return Value: The zero-based index of the first occurrence of value within the section of source that extends from startIndex to the end of the System.String, if found; otherwise, -1.

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The source System.String is searched forward starting at startIndex and ending at the end of the System.String . The System.String to search. The character to locate within source. The zero-based starting index of the search.

IndexOf

[C#] public virtual int IndexOf(string source, string value, CompareOptions options);

[C++] public: virtual int IndexOf(String* source, String* value, CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As String, ByVal options As CompareOptions) As Integer

[JScript] public function IndexOf(source : String, value : String, options :

CompareOptions): int;

Description

Searches for the specified substring and returns the zero-based index of the first occurrence within the entire source System.String using the specified System.Globalization.CompareOptions value.

Return Value: The zero-based index of the first occurrence of value within the entire source using the specified System. Globalization. Compare Options value, if found; otherwise, -1.

The source System.String is searched forward starting at the beginning of the System.String and ending at the end of the System.String. The System.String to search. The System.String to locate within source. The

System.Globalization.CompareOptions value that defines how the strings should be compared.

IndexOf

[C#] public virtual int IndexOf(string source, string value, int startIndex);
[C++] public: virtual int IndexOf(String* source, String* value, int startIndex);
[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value
As String, ByVal startIndex As Integer) As Integer
[JScript] public function IndexOf(source: String, value: String, startIndex: int):
int;

Description

Searches for the specified substring and returns the zero-based index of the first occurrence within the section of the source **System.String** that extends from the specified index to the end of the **System.String**.

Return Value: The zero-based index of the first occurrence of value within the section of source that extends from startIndex to the end of the System.String, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at the end of the **System.String**. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the search.

IndexOf

[C#] public virtual int IndexOf(string source, char value, int startIndex,

CompareOptions options);
[C++] public: virtual int Ir
CompareOptions options);
[VB] Overridable Public F

C++] public: virtual int IndexOf(String* source, __wchar_t value, int startIndex, CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function IndexOf(source : String, value : Char, startIndex : int, options : CompareOptions) : int;

Description

Searches for the specified character and returns the zero-based index of the first occurrence within the section of the source **System.String** that extends from the specified index to the end of the **System.String** using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the first occurrence of value within the section of source that extends from startIndex to the end of the System.String using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at the end of the **System.String**. The **System.String** to search. The character to locate within *source*. The zero-based starting index of the search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IndexOf

[C#] public virtual int IndexOf(string source, char value, int startIndex, int count);
[C++] public: virtual int IndexOf(String* source, __wchar_t value, int startIndex, int count);
[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer, ByVal count As Integer) As Integer

As Char, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public function IndexOf(source : String, value : Char, startIndex : int, count : int) : int;

Description

Searches for the specified character and returns the zero-based index of the first occurrence within the section of the source **System.String** that starts at the specified index and contains the specified number of elements.

Return Value: The zero-based index of the first occurrence of value within the section of source that starts at startIndex and contains count number of elements, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at *startIndex* + *count* - 1. The **System.String** to search. The character to locate within *source*. The zero-based starting index of the search. The number of elements in the section to search.

IndexOf

[C#] public virtual int IndexOf(string source, string value, int startIndex, CompareOptions options);

[C++] public: virtual int IndexOf(String* source, String* value, int startIndex,

CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function IndexOf(source : String, value : String, startIndex : int, options : CompareOptions) : int;

Description

Searches for the specified substring and returns the zero-based index of the first occurrence within the section of the source **System.String** that extends from the specified index to the end of the **System.String** using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the first occurrence of value within the section of source that extends from startIndex to the end of the System.String using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at the end of the **System.String**. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IndexOf

[C#] public virtual int IndexOf(string source, string value, int startIndex, int count);

[C++] public: virtual int IndexOf(String*	source,	String*	value,	int sta	artIndex	, int
count);						

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public function IndexOf(source : String, value : String, startIndex : int, count : int) : int;

Description

Searches for the specified substring and returns the zero-based index of the first occurrence within the section of the source **System.String** that starts at the specified index and contains the specified number of elements.

Return Value: The zero-based index of the first occurrence of value within the section of source that starts at startIndex and contains count number of elements, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at *startIndex* + *count* - 1. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the search. The number of elements in the section to search.

IndexOf

[C#] public virtual int IndexOf(string source, char value, int startIndex, int count, CompareOptions options);

[C++] public: virtual int IndexOf(String* source, __wchar_t value, int startIndex, int count, CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value

As Char, ByVal startIndex As Integer, ByVal count As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function IndexOf(source : String, value : Char, startIndex : int, count : int, options : CompareOptions) : int;

Description

Searches for the specified character and returns the zero-based index of the first occurrence within the section of the source **System.String** that starts at the specified index and contains the specified number of elements using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the first occurrence of value within the section of source that starts at startIndex and contains count number of elements using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at *startIndex* + *count* - 1. The **System.String** to search. The character to locate within *source*. The zero-based starting index of the search. The number of elements in the section to search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IndexOf

[C#] public virtual int IndexOf(string source, string value, int startIndex, int count, CompareOptions options);

[C++] public: virtual int IndexOf(String* source, String* value, int startIndex, int count, CompareOptions options);

[VB] Overridable Public Function IndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer, ByVal options As CompareOptions) As Integer
[JScript] public function IndexOf(source : String, value : String, startIndex : int, count : int, options : CompareOptions) : int;

Description

Searches for the specified substring and returns the zero-based index of the first occurrence within the section of the source **System.String** that starts at the specified index and contains the specified number of elements using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the first occurrence of value within the section of source that starts at startIndex and contains count number of elements using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched forward starting at *startIndex* and ending at *startIndex* + *count* - 1. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the search. The number of elements in the section to search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IsPrefix

[C#] public virtual bool IsPrefix(string source, string prefix);[C++] public: virtual bool IsPrefix(String* source, String* prefix);[VB] Overridable Public Function IsPrefix(ByVal source As String, ByVal prefix

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[JScript] public function IsPrefix(source : String, prefix : String) : Boolean;

Description

Determines whether the specified source **System.String** starts with the specified prefix.

Return Value: true if the length of prefix is less than or equal to the length of source and source starts with prefix; otherwise, false.

Every string starts and ends with an empty substring; therefore, if *prefix* is an empty string, this method returns **true**. The **System.String** to search in. The **System.String** to compare with the beginning of *source*.

IsPrefix

[C#] public virtual bool IsPrefix(string source, string prefix, CompareOptions options);

[C++] public: virtual bool IsPrefix(String* source, String* prefix,

CompareOptions options);

[VB] Overridable Public Function IsPrefix(ByVal source As String, ByVal prefix

As String, ByVal options As CompareOptions) As Boolean

[JScript] public function IsPrefix(source : String, prefix : String, options :

CompareOptions): Boolean; Determines whether a string starts with a specific prefix.

Description

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Determines whether the specified source **System.String** starts with the specified prefix using the specified **System.Globalization.CompareOptions** value.

Return Value: **true** if the length of prefix is less than or equal to the length of source and source starts with prefix; otherwise, **false**.

Every string starts and ends with an empty substring; therefore, if *prefix* is an empty string, this method returns **true**. The **System.String** to search in. The **System.String** to compare with the beginning of *source*. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

IsSuffix

[C#] public virtual bool IsSuffix(string source, string suffix);

[C++] public: virtual bool IsSuffix(String* source, String* suffix);

[VB] Overridable Public Function IsSuffix(ByVal source As String, ByVal suffix As String) As Boolean

[JScript] public function IsSuffix(source : String, suffix : String) : Boolean;

Description

Determines whether the specified source **System.String** ends with the specified suffix.

Return Value: true if the length of suffix is less than or equal to the length of source and source ends with suffix; otherwise, false.

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Every string starts and ends with an empty substring; therefore, if suffix is an empty string, this method returns true. The System.String to search in. The System.String to compare with the end of source.

IsSuffix

[C#] public virtual bool IsSuffix(string source, string suffix, CompareOptions options);

[C++] public: virtual bool IsSuffix(String* source, String* suffix,

CompareOptions options);

[VB] Overridable Public Function IsSuffix(ByVal source As String, ByVal suffix As String, ByVal options As CompareOptions) As Boolean

[JScript] public function IsSuffix(source : String, suffix : String, options :

CompareOptions): Boolean; Determines whether a string ends with a specific suffix.

Description

Determines whether the specified source System.String ends with the specified suffix using the specified System. Globalization. Compare Options value.

Return Value: true if the length of suffix is less than or equal to the length of source and source ends with suffix; otherwise, false.

Every string starts and ends with an empty substring; therefore, if suffix is an empty string, this method returns true. The System.String to search in. The System.String to compare with the end of source. The

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Description

System.Globalization.CompareOptions value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, char value);

[C++] public: virtual int LastIndexOf(String* source, __wchar_t value);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char) As Integer

[JScript] public function LastIndexOf(source : String, value : Char) : int; Returns the zero-based index of the last occurrence of a value within a **System.String** or within a portion of it.

Searches for the specified character and returns the zero-based index of the last occurrence within the entire source **System.String**.

Return Value: The zero-based index of the last occurrence of value within the entire source, if found; otherwise, -1.

The source **System.String** is searched backward starting at the end of the **System.String** and ending at the beginning of the **System.String**. The **System.String** to search. The character to locate within *source*.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value);

[C++] public: virtual int LastIndexOf(String* source, String* value);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal

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value As String) As Integer [JScript] public function LastIndexOf(source : String, value : String) : int; Description Searches for the specified substring and returns the zero-based index of the last occurrence within the entire source System.String. Return Value: The zero-based index of the last occurrence of value within the entire source, if found; otherwise, -1. The source System.String is searched backward starting at the end of the System.String and ending at the beginning of the System.String. The System.String to search. The System.String to locate within source. LastIndexOf [C#] public virtual int LastIndexOf(string source, char value, CompareOptions options); [C++] public: virtual int LastIndexOf(String* source, __wchar_t value, CompareOptions options); [VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char, ByVal options As CompareOptions) As Integer [JScript] public function LastIndexOf(source : String, value : Char, options : CompareOptions): int;

Description

Searches for the specified character and returns the zero-based index of the last occurrence within the entire source **System.String** using the specified

System. Globalization. Compare Options value.

Return Value: The zero-based index of the last occurrence of value within the entire source using the specified **System.Globalization.CompareOptions** value, if found; otherwise, -1.

The source **System.String** is searched backward starting at the end of the **System.String** and ending at the beginning of the **System.String**. The **System.String** to search. The character to locate within *source*. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, char value, int startIndex); [C++] public: virtual int LastIndexOf(String* source, __wchar_t value, int startIndex);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer) As Integer

[JScript] public function LastIndexOf(source : String, value : Char, startIndex :

Description

int): int;

Searches for the specified character and returns the zero-based index of the last occurrence within the section of the source **System.String** that extends from the beginning of the **System.String** to the specified index.

Return Value: The zero-based index of the last occurrence of value within the

section of *source* that extends from the beginning of the **System.String** to *startIndex*, if found; otherwise, -1.

The source **System.String** is searched backward starting at *startIndex* and ending at the beginning of the **System.String**. The **System.String** to search. The character to locate within *source*. The zero-based starting index of the backward search.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value, CompareOptions options);

[C++] public: virtual int LastIndexOf(String* source, String* value, CompareOptions options);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As String, ByVal options As CompareOptions) As Integer

[JScript] public function LastIndexOf(source : String, value : String, options :

CompareOptions): int;

Description

Searches for the specified substring and returns the zero-based index of the last occurrence within the entire source **System.String** using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the last occurrence of value within the entire source using the specified **System.Globalization.CompareOptions** value, if found; otherwise, -1.

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The source **System.String** is searched backward starting at the end of the **System.String** and ending at the beginning of the **System.String**. The **System.String** to search. The **System.String** to locate within *source*. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value, int startIndex); [C++] public: virtual int LastIndexOf(String* source, String* value, int startIndex);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer) As Integer

[JScript] public function LastIndexOf(source : String, value : String, startIndex : int) : int;

Description

Searches for the specified substring and returns the zero-based index of the last occurrence within the section of the source **System.String** that extends from the beginning of the **System.String** to the specified index.

Return Value: The zero-based index of the last occurrence of value within the section of source that extends from the beginning of the **System.String** to startIndex, if found; otherwise, -1.

The source **System.String** is searched backward starting at *startIndex* and ending at the beginning of the **System.String**. The **System.String** to search. The

System.String to locate within *source*. The zero-based starting index of the backward search.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, char value, int startIndex, CompareOptions options);

[C++] public: virtual int LastIndexOf(String* source, __wchar_t value, int startIndex, CompareOptions options);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer, ByVal options As CompareOptions)
As Integer

[JScript] public function LastIndexOf(source : String, value : Char, startIndex : int, options : CompareOptions) : int;

Description

Searches for the specified character and returns the zero-based index of the last occurrence within the section of the source **System.String** that extends from the beginning of the **System.String** to the specified index using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the last occurrence of value within the section of source that extends from the beginning of the System.String to startIndex using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched backward starting at *startIndex* and ending at the beginning of the **System.String**. The **System.String** to search. The

character to locate within *source*. The zero-based starting index of the backward search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, char value, int startIndex, int count);

[C++] public: virtual int LastIndexOf(String* source, __wchar_t value, int startIndex, int count);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public function LastIndexOf(source: String, value: Char, startIndex: int, count: int): int;

Description

Searches for the specified character and returns the zero-based index of the last occurrence within the section of the source **System.String** that contains the specified number of elements and ends at the specified index.

Return Value: The zero-based index of the last occurrence of value within the section of source that contains count number of elements and ends at startIndex, if found; otherwise, -1.

The source **System.String** is searched backward starting at startIndex and ending at startIndex - count + 1. The **System.String** to search. The character to locate within source. The zero-based starting index of the backward search. The number of elements in the section to search.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value, int startIndex, CompareOptions options);

[C++] public: virtual int LastIndexOf(String* source, String* value, int startIndex, CompareOptions options);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal options As CompareOptions)
As Integer

[JScript] public function LastIndexOf(source : String, value : String, startIndex : int, options : CompareOptions) : int;

Description

Searches for the specified substring and returns the zero-based index of the last occurrence within the section of the source **System.String** that extends from the beginning of the **System.String** to the specified index using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the last occurrence of value within the section of source that extends from the beginning of the System.String to startIndex using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched backward starting at *startIndex* and ending at the beginning of the **System.String**. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the

backward search. The **System.Globalization.CompareOptions** value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value, int startIndex, int count);

[C++] public: virtual int LastIndexOf(String* source, String* value, int startIndex, int count);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer) As Integer [JScript] public function LastIndexOf(source: String, value: String, startIndex: int, count: int): int;

Description

Searches for the specified substring and returns the zero-based index of the last occurrence within the section of the source **System.String** that contains the specified number of elements and ends at the specified index.

Return Value: The zero-based index of the last occurrence of value within the section of source that contains count number of elements and ends at startIndex, if found; otherwise, -1.

The source **System.String** is searched backward starting at *startIndex* and ending at *startIndex - count* + 1. The **System.String** to search. The **System.String** to locate within *source*. The zero-based starting index of the backward search. The number of elements in the section to search.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, char value, int startIndex, int count, CompareOptions options);

[C++] public: virtual int LastIndexOf(String* source, __wchar_t value, int startIndex, int count, CompareOptions options);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As Char, ByVal startIndex As Integer, ByVal count As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function LastIndexOf(source : String, value : Char, startIndex : int, count : int, options : CompareOptions) : int;

Description

Searches for the specified character and returns the zero-based index of the last occurrence within the section of the source **System.String** that contains the specified number of elements and ends at the specified index using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the last occurrence of value within the section of source that contains count number of elements and ends at startIndex using the specified System.Globalization.CompareOptions value, if found; otherwise, -1.

The source **System.String** is searched backward starting at startIndex and ending at startIndex - count + 1. The **System.String** to search. The character to locate within source. The zero-based starting index of the backward search. The number of elements in the section to search. The

System.Globalization.CompareOptions value that defines how the strings should be compared.

LastIndexOf

[C#] public virtual int LastIndexOf(string source, string value, int startIndex, int count, CompareOptions options);

[C++] public: virtual int LastIndexOf(String* source, String* value, int startIndex, int count, CompareOptions options);

[VB] Overridable Public Function LastIndexOf(ByVal source As String, ByVal value As String, ByVal startIndex As Integer, ByVal count As Integer, ByVal options As CompareOptions) As Integer

[JScript] public function LastIndexOf(source : String, value : String, startIndex : int, count : int, options : CompareOptions) : int;

Description

Searches for the specified substring and returns the zero-based index of the last occurrence within the section of the source **System.String** that contains the specified number of elements and ends at the specified index using the specified **System.Globalization.CompareOptions** value.

Return Value: The zero-based index of the last occurrence of value within the section of source that contains count number of elements and ends at startIndex using the specified **System.Globalization.CompareOptions** value, if found; otherwise, -1.

The source **System.String** is searched backward starting at startIndex and ending at startIndex - count + 1. The **System.String** to search. The **System.String**

1	to locate within source. The zero-based starting index of the backward search. The
2	number of elements in the section to search. The
3	System.Globalization.CompareOptions value that defines how the strings
4	should be compared.
5	IDeserializationCallback.OnDeserialization
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7	[C#] void IDeserializationCallback.OnDeserialization(object sender);
8	[C++] void IDeserializationCallback::OnDeserialization(Object* sender);
9	[VB] Sub OnDeserialization(ByVal sender As Object) Implements
10	IDeserializationCallback.OnDeserialization
11	[JScript] function IDeserializationCallback.OnDeserialization(sender : Object);
12	ToString
13	
14	[C#] public override string ToString();
15	[C++] public: String* ToString();
16	[VB] Overrides Public Function ToString() As String
17	[JScript] public override function ToString(): String;
18	
19	Description
20	Returns a System.String that represents the current
21	System.Globalization.CompareInfo instance.
22	Return Value: A System.String that represents the current
23	System.Globalization.CompareInfo instance.
24	This method overrides System.Object.ToString.
25	CompareOptions enumeration (System.Globalization)

1	ToString
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4	Description
5	Defines the string comparison options to use with
6	System.Globalization.CompareInfo .
7	These options denote case-sensitivity or whether to ignore types of
8	characters.
9	ToString
10	
11	[C#] public const CompareOptions IgnoreCase;
12	[C++] public: const CompareOptions IgnoreCase;
13	[VB] Public Const IgnoreCase As CompareOptions
14	[JScript] public var IgnoreCase : CompareOptions;
15	
16	Description
17	Indicates that the string comparison must ignore case.
18	ToString
19	
20	[C#] public const CompareOptions IgnoreKanaType;
21	[C++] public: const CompareOptions IgnoreKanaType;
22	[VB] Public Const IgnoreKanaType As CompareOptions
23	[JScript] public var IgnoreKanaType : CompareOptions;
24	
25	Description

Indicates that the string comparison must ignore the Kana type. Kana type refers to Japanese hiragana and katakana characters, which represent phonetic sounds in the Japanese language. Hiragana is used for native Japanese expressions and words, while katakana is used for words borrowed from other languages, such as "computer" or "internet". A phonetic sound can be expressed in both hiragana and katakana. If this value is selected, the hiragana character for one sound is considered equal to the katakana character for the same sound.

ToString

[C#] public const CompareOptions IgnoreNonSpace;

[C++] public: const CompareOptions IgnoreNonSpace;

[VB] Public Const IgnoreNonSpace As CompareOptions

[JScript] public var IgnoreNonSpace : CompareOptions;

Description

Indicates that the string comparison must ignore nonspacing combining characters, such as diacritics. The Unicode Standard defines combining characters as characters that are combined with base characters to produce a new character. Non-spacing combining characters do not occupy a spacing position by themselves when rendered. For more information on non-spacing combining characters, see The Unicode Standard at http://www.unicode.org.

ToString

[C#] public const CompareOptions IgnoreSymbols;

[C++] public: const CompareOptions IgnoreSymbols;

[VB] Public Const IgnoreSymbols As CompareOptions [JScript] public var IgnoreSymbols : CompareOptions;

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Indicates that the string comparison must ignore symbols, such as whitespace characters, punctuation, currency symbols, the percent sign, mathematical symbols, the ampersand, and so on.

ToString

[C#] public const CompareOptions IgnoreWidth;

[C++] public: const CompareOptions IgnoreWidth;

[VB] Public Const IgnoreWidth As CompareOptions

[JScript] public var IgnoreWidth: CompareOptions;

Description

Indicates that the string comparison must ignore the character width. For example, Japanese katakana characters can be written as full-width or half-width and, if this value is selected, the katakana characters written as full-width are considered equal to the same characters written in half-width.

ToString

[C#] public const CompareOptions None;

[C++] public: const CompareOptions None;

[VB] Public Const None As CompareOptions

[JScript] public var None : CompareOptions;

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Description

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Indicates the default option settings for string comparisons.

ToString

[C#] public const CompareOptions Ordinal;

[C++] public: const CompareOptions Ordinal;

[VB] Public Const Ordinal As CompareOptions

[JScript] public var Ordinal: CompareOptions;

Description

Indicates that the string comparison must be done using the Unicode values of each character, which is a fast comparison but is culture-insensitive. A string starting with "U+xxxx" comes before a string starting with "U+yyyy", if xxxx is less than yyyy.

ToString

[C#] public const CompareOptions StringSort;

[C++] public: const CompareOptions StringSort;

[VB] Public Const StringSort As CompareOptions

[JScript] public var StringSort : CompareOptions;

Description

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Indicates that the string comparison must use the string sort method, where the hyphen and the apostrophe, as well as other non-alphanumeric characters, come before alphanumeric symbols.

CultureInfo class (System.Globalization)

ToString

Description

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Represents information about a specific culture including the names of the culture, the writing system, and the calendar used, as well as methods for common operations, such as formatting dates and sorting strings.

The **System.Globalization.CultureInfo** class holds culture-specific information, such as the associated language, sublanguage, country/region, calendar, and cultural conventions. This class also provides the information required for culture-specific operations, such as casing, formatting dates and numbers, and comparing strings.

CultureInfo

Example Syntax:

ToString

[C#] public CultureInfo(int culture);

[C++] public: CultureInfo(int culture);

[VB] Public Sub New(ByVal culture As Integer)

[JScript] public function CultureInfo(culture: int);

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Description

Initializes a new instance of the **System.Globalization.CultureInfo** class based on the culture specified by the culture identifier.

The *culture* parameter is mapped to the corresponding National Language Support (NLS) locale identifier. The value of the *culture* parameter becomes the value of the **System.Globalization.CultureInfo.LCID** property of the new instance. A predefined **System.Globalization.CultureInfo** identifier or the **System.Globalization.CultureInfo.LCID** of an existing **System.Globalization.CultureInfo** instance.

CultureInfo

Example Syntax:

ToString

[C#] public CultureInfo(string name);

[C++] public: CultureInfo(String* name);

[VB] Public Sub New(ByVal name As String)

[JScript] public function CultureInfo(name: String); Initializes a new instance of the **System.Globalization.CultureInfo** class.

Description

Initializes a new instance of the **System.Globalization.CultureInfo** class based on the culture specified by name.

The **System.Globalization.CultureInfo** names follow the RFC 1766 standard in the format "-", where is a lowercase two-letter code derived from ISO

639-1 and is an uppercase two-letter code derived from ISO 3166. For example, U.S. English is "en-US". The predefined **System.Globalization.CultureInfo** names are listed in the **System.Globalization.CultureInfo** class topic. A predefined **System.Globalization.CultureInfo** name or the name of an existing **System.Globalization.CultureInfo** instance.

CultureInfo

Example Syntax:

ToString

[C#] public CultureInfo(int culture, bool useUserOverride);

[C++] public: CultureInfo(int culture, bool useUserOverride);

[VB] Public Sub New(ByVal culture As Integer, ByVal useUserOverride As Boolean)

[JScript] public function CultureInfo(culture: int, useUserOverride: Boolean);

Description

Initializes a new instance of the **System.Globalization.CultureInfo** class based on the culture specified by the culture identifier and on the Boolean that specifies whether to use the user-selected culture settings from the system.

The *culture* parameter is mapped to the corresponding National Language Support (NLS) locale identifier. The value of the *culture* parameter becomes the value of the **System.Globalization.CultureInfo.LCID** property of the new instance. A predefined **System.Globalization.CultureInfo** identifier or the **System.Globalization.CultureInfo** of an existing

System.Globalization.CultureInfo instance. A Boolean that denotes whether to use the user-selected culture settings (true) or the default culture settings (false).

CultureInfo

Example Syntax:

ToString

[C#] public CultureInfo(string name, bool useUserOverride);

[C++] public: CultureInfo(String* name, bool useUserOverride);

[VB] Public Sub New(ByVal name As String, ByVal useUserOverride As Boolean)

[JScript] public function CultureInfo(name: String, useUserOverride: Boolean);

Description

Initializes a new instance of the **System.Globalization.CultureInfo** class based on the culture specified by name and on the Boolean that specifies whether to use the user-selected culture settings from the system.

The System.Globalization.CultureInfo names follow the RFC 1766 standard in the format "-", where is a lowercase two-letter code derived from ISO 639-1 and is an uppercase two-letter code derived from ISO 3166. For example, U.S. English is "en-US". The predefined System.Globalization.CultureInfo names are listed in the System.Globalization.CultureInfo class topic. A predefined System.Globalization.CultureInfo name or the name of an existing System.Globalization.CultureInfo instance. A Boolean that denotes whether to use the user-selected culture settings (true) or the default culture settings (false).

Calendar

1	ToString
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3	[C#] public virtual Calendar Calendar {get;}
4	[C++] public:property virtual Calendar* §

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: __property virtual Calendar* get_Calendar();

[VB] Overridable Public ReadOnly Property Calendar As Calendar

[JScript] public function get Calendar(): Calendar;

Description

Gets the default calendar used by the culture.

The System.Globalization.CultureInfo.DateTimeFormat property is an instance of the System. Globalization. Date Time Format Info class which includes properties that allow users to customize the date and time formatting associated with a specific System.Globalization.Calendar.

CompareInfo

ToString

[C#] public virtual CompareInfo CompareInfo {get;}

[C++] public: __property virtual CompareInfo* get_CompareInfo();

[VB] Overridable Public ReadOnly Property CompareInfo As CompareInfo

[JScript] public function get CompareInfo(): CompareInfo;

Description

Gets the System.Globalization.CompareInfo instance that defines how to compare strings for the culture.

CurrentCulture

- 11	
3	[C#] public static CultureInfo CurrentCulture {get;}
4	[C++] public:property static CultureInfo* get_CurrentCulture();
5	[VB] Public Shared ReadOnly Property CurrentCulture As CultureInfo
6	[JScript] public static function get CurrentCulture() : CultureInfo;
7	
8	Description
9	Gets the System.Globalization.CultureInfo instance that represents the
10	culture used by the current thread.
11	The culture is a property of the executing thread. This read-only property
12	returns System. Threading. Thread. Current Culture. When a thread is started, its
13	culture is initially determined by using GetUserDefaultLCID from the Windows
14	API. To change the culture used by a thread, set
15	System. Threading. Thread. Current Culture to the new culture.
16	CurrentUICulture
17	ToString
18	
19	[C#] public static CultureInfo CurrentUICulture {get;}
20	[C++] public:property static CultureInfo* get_CurrentUICulture();
21	[VB] Public Shared ReadOnly Property CurrentUICulture As CultureInfo
22	[JScript] public static function get CurrentUICulture() : CultureInfo;

ToString

Description

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Gets the **System.Globalization.CultureInfo** instance that represents the current culture used by the ResourceManager to look up culture-specific resources at run time.

The culture is a property of the executing thread. This property returns System. Threading. Thread. Current UI Culture. When a thread is started, its UI culture is initially determined by using GetUserDefaultUILanguage from the Windows API. To change the UI culture used by a thread, set System. Threading. Thread. Current UI Culture to the new culture.

DateTimeFormat

ToString

[C#] public virtual DateTimeFormatInfo DateTimeFormat {get; set;}

[C++] public: property virtual DateTimeFormatInfo*

get_DateTimeFormat();public: __property virtual void

set DateTimeFormat(DateTimeFormatInfo*);

[VB] Overridable Public Property DateTimeFormat As DateTimeFormatInfo

[JScript] public function get DateTimeFormat() : DateTimeFormatInfo;public

function set DateTimeFormat(DateTimeFormatInfo);

Description

Gets or sets a **System.Globalization.DateTimeFormatInfo** instance that defines the culturally appropriate format of displaying dates and times.

A System.Globalization.DateTimeFormatInfo instance can be created only for the invariant culture or for specific cultures, not for neutral cultures.

DisplayName

1	ToString
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3	[C#] public virtual string DisplayName {get;}
4	[C++] public:property virtual String* get_DisplayName();
5	[VB] Overridable Public ReadOnly Property DisplayName As String
6	[JScript] public function get DisplayName() : String;
7	
8	Description
9	Gets the culture name in the format "()" in the localized language of the
10	.NET Framework.
11	For example, if the .NET Framework English version is installed, the
12	System.Globalization.CultureInfo.DisplayName for the specific culture U.S.
13	English is "English (United States)". If the .NET Framework Spanish version is
14	installed, regardless of the language that the system is set to display, the culture
15	name is displayed in Spanish; therefore, the
16	System.Globalization.CultureInfo.DisplayName for the specific culture U.S.
17	English is "Ingles (Estados Unidos)".
18	EnglishName
19	ToString
20	
21	[C#] public virtual string EnglishName {get;}
22	[C++] public:property virtual String* get_EnglishName();
23	[VB] Overridable Public ReadOnly Property EnglishName As String
24	[JScript] public function get EnglishName(): String;

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Gets the culture name in the format " ()" in English.

For example, the **System.Globalization.CultureInfo.EnglishName** for the specific culture U.S. English is "English (United States)".

InstalledUICulture

ToString

[C#] public static CultureInfo InstalledUICulture {get;}

[C++] public: __property static CultureInfo* get_InstalledUICulture();

[VB] Public Shared ReadOnly Property InstalledUICulture As CultureInfo

[JScript] public static function get InstalledUICulture(): CultureInfo;

Description

Gets the **System.Globalization.CultureInfo** instance that represents the culture installed with the operating system.

In a localized operating system, such as Japanese Windows 2000

Professional, this property returns the culture of the operating system. This property is the equivalent of GetSystemDefaultUILanguage in the Windows API.

InvariantCulture

ToString

[C#] public static CultureInfo InvariantCulture {get;}

[C++] public: __property static CultureInfo* get_InvariantCulture();

[VB] Public Shared ReadOnly Property InvariantCulture As CultureInfo

[JScript] public static function get InvariantCulture(): CultureInfo; 1 2 Description 3 Gets the System. Globalization. Culture Info instance that is culture-4 independent (invariant). 5 The invariant culture is culture-insensitive. You can specify the invariant 6 culture by name using an empty string. 7 **IsNeutralCulture** 8 **ToString** 10 [C#] public virtual bool IsNeutralCulture {get;} 11 [C++] public: __property virtual bool get_IsNeutralCulture(); 12 [VB] Overridable Public ReadOnly Property IsNeutralCulture As Boolean 13 [JScript] public function get IsNeutralCulture(): Boolean; 15 Description 16 Determines whether the current System. Globalization. CultureInfo 17 instance is a neutral culture. 18 A neutral culture is a culture that is associated with a language but not with 19 a country/region. A specific culture is a culture that is associated with a language 20 and a country/region. For example, "fr" is a neutral culture and "fr-FR" is a 21 specific culture. Note that "zh-CHS" (Simplified Chinese) and "zh-CHT" 22 (Traditional Chinese) are neutral cultures. 23 IsReadOnly 24 **ToString**

1	
2	[C#] public bool IsReadOnly {get;}
3	[C++] public:property bool get_IsReadOnly();
4	[VB] Public ReadOnly Property IsReadOnly As Boolean
5	[JScript] public function get IsReadOnly(): Boolean;
6	
7	Description
8	Gets a value indicating whether the current
9	System.Globalization.CultureInfo instance is read-only.
10	LCID
11	ToString
12	
13	[C#] public virtual int LCID {get;}
14	[C++] public:property virtual int get_LCID();
15	[VB] Overridable Public ReadOnly Property LCID As Integer
16	[JScript] public function get LCID(): int;
17	
18	Description
19	Gets the culture identifier for the current
20	System.Globalization.CultureInfo instance.
21	The culture identifier is mapped to the corresponding National Language
22	Support (NLS) locale identifier.
23	Name
24	ToString
25	

1 [C#] public virtual string Name {get;} 2 [C++] public: property virtual String* get_Name(); 3 [VB] Overridable Public ReadOnly Property Name As String [JScript] public function get Name(): String; 5 6 Description7 Gets the culture name in the format "-". 8 The System.Globalization.CultureInfo names follow the RFC 1766 9 standard in the format "-", where is a lowercase two-letter code derived from ISO 10 639-1 and is an uppercase two-letter code derived from ISO 3166. For example, 11 the System.Globalization.CultureInfo.Name for the specific culture U.S. 12 English is "en-US". 13 NativeName 14 **ToString** 15 16 [C#] public virtual string NativeName {get;} 17 [C++] public: __property virtual String* get_NativeName(); 18 [VB] Overridable Public ReadOnly Property NativeName As String 19 [JScript] public function get NativeName(): String; 21 Description 22 Gets the culture name in the format " ()" in the language that the culture is 23 set to display. 24

The culture's full name might not display properly if the system is not set to display the culture's language correctly. For example, if the System.Globalization.CultureInfo.Name is "ja-JP" for Japanese (Japan), System.Globalization.CultureInfo.NativeName will not display correctly on a system that is set to English only. However, multilingual operating systems, such as Windows 2000, display System.Globalization.CultureInfo.NativeName correctly.

NumberFormat

ToString

[C#] public virtual NumberFormatInfo NumberFormat {get; set;}
[C++] public: __property virtual NumberFormatInfo*
get_NumberFormat();public: __property virtual void
set_NumberFormat(NumberFormatInfo*);

[VB] Overridable Public Property NumberFormat As NumberFormatInfo [JScript] public function get NumberFormat(): NumberFormatInfo;public function set NumberFormat(NumberFormatInfo);

Description

Gets or sets a **System.Globalization.NumberFormatInfo** instance that defines the culturally appropriate format of displaying numbers, currency, and percentage.

A System.Globalization.NumberFormatInfo instance can be created only for the invariant culture or for specific cultures, not for neutral cultures.

OptionalCalendars

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	r c #1	public virtual	Calendar[]	OptionalCalendars	{get:
i		public virtual	Carcindar	OptionalCarondars	(579)

[C++] public: __property virtual Calendar* get_OptionalCalendars();

[VB] Overridable Public ReadOnly Property OptionalCalendars As Calendar ()

[JScript] public function get OptionalCalendars() : Calendar[];

Description

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Gets the list of optional calendars that can be used by the culture.

Optional calendars are other calendars that can be used with the culture represented by the current **System.Globalization.CultureInfo** instance.

Parent

ToString

[C#] public virtual CultureInfo Parent {get;}

[C++] public: __property virtual CultureInfo* get_Parent();

[VB] Overridable Public ReadOnly Property Parent As CultureInfo

[JScript] public function get Parent(): CultureInfo;

Description

Gets the **System.Globalization.CultureInfo** instance that represents the parent culture of the current **System.Globalization.CultureInfo** instance.

A parent culture is a higher level culture that encompasses a more limited set of information that is common among its children. For example, the parent culture of "en-US" is "en"; the parent culture of "en" is the invariant culture.

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4	[C#] public virtual TextInfo TextInfo {get;}
5	[C++] public:property virtual TextInfo* get_TextInfo();
6	[VB] Overridable Public ReadOnly Property TextInfo As TextInfo
7	[JScript] public function get TextInfo(): TextInfo;
8	
9	Description
10	Gets the System. Globalization. TextInfo instance that defines the writing
11	system associated with the culture.
12	The System.Globalization.CultureInfo.TextInfo property provides
13	culture-specific casing information for strings.
14	ThreeLetterISOLanguageName
15	ToString
16	
17	[C#] public virtual string ThreeLetterISOLanguageName {get;}
18	[C++] public:property virtual String* get_ThreeLetterISOLanguageName();
19	[VB] Overridable Public ReadOnly Property ThreeLetterISOLanguageName As
20	String
21	[JScript] public function get ThreeLetterISOLanguageName() : String;
22	
23	Description
24	Gets the ISO 639-2 three-letter code for the language of the current
	System Globalization CultureInfo instance.

1	For example, the three-letter abbreviation for English is "eng".
2	ThreeLetterWindowsLanguageName
3	ToString
4	
5	[C#] public virtual string ThreeLetterWindowsLanguageName {get;}
6	[C++] public:property virtual String*
7	get_ThreeLetterWindowsLanguageName();
8	[VB] Overridable Public ReadOnly Property ThreeLetterWindowsLanguageName
9	As String
10	[JScript] public function get ThreeLetterWindowsLanguageName() : String;
11	
12	Description
13	Gets the three-letter code for the language as defined in the Windows API.
14	For example, the three-letter code for English (U.S.) as defined in the
15	Windows API is "enu".
16	TwoLetterISOLanguageName
17	ToString
18	
19	[C#] public virtual string TwoLetterISOLanguageName {get;}
20	[C++] public:property virtual String* get_TwoLetterISOLanguageName();
21	[VB] Overridable Public ReadOnly Property TwoLetterISOLanguageName As
22	String
23	[JScript] public function get TwoLetterISOLanguageName(): String;
24	
25	Description

Gets the ISO 639-1 two-letter code for the language of the current 1 System. Globalization. Culture Info instance. 2 For example, the two-letter abbreviation for English is "en". 3 UseUserOverride **ToString** 5 6 [C#] public bool UseUserOverride {get;} 7 [C++] public: __property bool get_UseUserOverride(); 8 [VB] Public ReadOnly Property UseUserOverride As Boolean [JScript] public function get UseUserOverride(): Boolean; 10 11 Description 12 Gets a value indicating whether the current 13 System.Globalization.CultureInfo instance uses the user-selected culture 14 settings. 15 The user might choose to override some of the values associated with the 16 default culture of the system through the Regional and Language Options (or 17 Regional Options or Regional Settings) applet in Windows Control Panel. For 18 example, the user might choose to display the date in a different format. This 19 property denotes whether the current System. Globalization. CultureInfo instance 20 uses those overrides (true) or whether it uses the default values (false) of the 21 culture settings. 22

[C#] public void ClearCachedData();

ClearCachedData

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[C++] public: void ClearCachedData(); [VB] Public Sub ClearCachedData() 2 [JScript] public function ClearCachedData(); 3 4 Description 5 Refreshes cached culture-related information. Information, such as the default culture and format patterns, is cached the 7 first time it is requested. However, that information can change during the life of 8 the System.AppDomain, for example, when the user modifies the Regional and 9 Language Options (or Regional Options or Regional Settings) applet in Windows 10 Control Panel. The System.Globalization.CultureInfo class does not detect 11 changes in the system settings automatically. Use the 12 ${\bf System. Globalization. Culture Info. Clear Cached Data}\ method\ to\ refresh\ that$ 13 information in the System. Globalization. CultureInfo class, based on the current 14 system settings. 15 Clone 16 17 [C#] public virtual object Clone(); 18 [C++] public: virtual Object* Clone(); 19 [VB] Overridable Public Function Clone() As Object 20 [JScript] public function Clone(): Object; 21 22 Description 23 Creates a copy of the current System. Globalization. CultureInfo instance. 24 Return Value: A copy of the current System. Globalization. CultureInfo instance. 25

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The clone is writable even if the original instance is read-only; therefore, the properties of the clone can be modified.

CreateSpecificCulture

[C#] public static CultureInfo CreateSpecificCulture(string name);

[C++] public: static CultureInfo* CreateSpecificCulture(String* name);

[VB] Public Shared Function CreateSpecificCulture(ByVal name As String) As CultureInfo

[JScript] public static function CreateSpecificCulture(name : String) : CultureInfo;

Description

Creates a **System.Globalization.CultureInfo** instance that represents the specific culture that is associated with the specified name.

Return Value: A System.Globalization.CultureInfo instance that represents the invariant culture, if name is "" (invariant culture).

The invariant culture is culture-insensitive. You can specify the invariant culture by name using an empty string. A predefined

System.Globalization.CultureInfo name or the name of an existing System.Globalization.CultureInfo instance.

Equals

[C#] public override bool Equals(object value);

[C++] public: bool Equals(Object* value);

[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean

[JScript] public override function Equals(value : Object) : Boolean;

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Determines whether the specified **System.Object** is the same culture as the current **System.Globalization.CultureInfo** instance.

Return Value: true if the specified System.Object is the same culture as the current System.Globalization.CultureInfo instance; otherwise, false.

This method overrides System.Object.Equals(System.Object). The System.Object to compare with the current System.Globalization.CultureInfo instance.

GetCultures

[C#] public static CultureInfo[] GetCultures(CultureTypes type
C# public static Culturelino[] GetCultures(Culture 1) per 1) per

[C++] public: static CultureInfo* GetCultures(CultureTypes types) [];

[VB] Public Shared Function GetCultures(ByVal types As CultureTypes) As

CultureInfo()

[JScript] public static function GetCultures(types : CultureTypes) : CultureInfo[];

Description

Gets the list of supported cultures filtered by the specified System.Globalization.CultureTypes .

Return Value: An array of System.Globalization.CultureInfo objects that represent the supported cultures filtered by the specified

System.Globalization.CultureTypes . A combination of

System.Globalization.CultureTypes values that filter the cultures to retrieve.

GetFormat

1	
2	[C#] public virtual object GetFormat(Type formatType);
3	[C++] public: virtual Object* GetFormat(Type* formatType);
4	[VB] Overridable Public Function GetFormat(ByVal formatType As Type) As
5	Object
6	[JScript] public function GetFormat(formatType : Type) : Object;
7	
8	Description
9	Gets an object that defines how to format the specified type.
10	Return Value: A System. Globalization. Number Format Info object containing
11	the default number format information for the current
12	System.Globalization.CultureInfo instance, if formatType is the System.Type
13	object for the System.Globalization.NumberFormatInfo class.
14	System.Globalization.CultureInfo.GetFormat(System.Type)
15	implements System.IFormatProvider.GetFormat(System.Type). The
16	System.Type for which to get a formatting object. This method only supports the
17	System.Globalization.NumberFormatInfo and
18	System.Globalization.DateTimeFormatInfo types.
19	GetHashCode
20	
21	[C#] public override int GetHashCode();
22	[C++] public: int GetHashCode();
23	[VB] Overrides Public Function GetHashCode() As Integer
24	[JScript] public override function GetHashCode(): int;
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Serves as a hash function for the current

System.Globalization.CultureInfo instance, suitable for use in hashing algorithms and data structures, such as a hash table.

Return Value: A hash code for the current System. Globalization. CultureInfo instance.

This method overrides ${\bf System. Object. Get Hash Code}$.

ReadOnly

[C#] public static CultureInfo ReadOnly(CultureInfo ci);

[C++] public: static CultureInfo* ReadOnly(CultureInfo* ci);

[VB] Public Shared Function ReadOnly(ByVal ci As CultureInfo) As CultureInfo

[JScript] public static function ReadOnly(ci : CultureInfo) : CultureInfo;

Description

Returns a read-only wrapper around the specified

System. Globalization. Culture Info instance.

Return Value: A read-only System. Globalization. Culture Info wrapper around ci

This wrapper prevents any modifications to ci, to the ci. The System.Globalization.CultureInfo instance to wrap.

ToString

[C#] public override string ToString();

[C++] public: String* ToString(); [VB] Overrides Public Function ToString() As String 2 [JScript] public override function ToString(): String; 3 4 Description 5 Returns a System.String containing the name of the current 6 System.Globalization.CultureInfo instance in the format "-". 7 Return Value: A System.String containing the name of the current 8 System.Globalization.CultureInfo instance in the format "-", where is a 9 lowercase two-letter code derived from ISO 639-1 and is an uppercase two-letter 10 code derived from ISO 3166. 11 This method overrides System.Object.ToString. 12 Culture Types enumeration (System. Globalization) 13 **ToString** 14 15 16 Description 17 Defines the types of culture lists that can be retrieved using 18 System. Globalization. Culture Info. Get Cultures (System. Globalization. Culture System. Globalization.)19 Types). 20 These culture types serve as a filter that limits which cultures are returned 21 by 22 System. Globalization. Culture Info. Get Cultures (System. Globalization. Culture System. Globalization.)Types). 24 **ToString** 25

1	
2	[C#] public const CultureTypes AllCultures;
3	[C++] public: const CultureTypes AllCultures;
4	[VB] Public Const AllCultures As CultureTypes
5	[JScript] public var AllCultures : CultureTypes;
6	
7	Description
8	Refers to all cultures.
9	ToString
10	
11	[C#] public const CultureTypes InstalledWin32Cultures;
12	[C++] public: const CultureTypes InstalledWin32Cultures;
13	[VB] Public Const InstalledWin32Cultures As CultureTypes
14	[JScript] public var InstalledWin32Cultures : CultureTypes;
15	
16	Description
17	Refers to all cultures that are installed in the system.
18	ToString
19	
20	[C#] public const CultureTypes NeutralCultures;
21	[C++] public: const CultureTypes NeutralCultures;
22	[VB] Public Const NeutralCultures As CultureTypes
23	[JScript] public var NeutralCultures : CultureTypes;
24	
25	Description

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Refers to cultures that are associated with a language but are not specific to a country/region. The names of these cultures consist of the lowercase two-letter code derived from ISO 639-1. For example: "en". **ToString**

[C#] public const CultureTypes SpecificCultures;

[C++] public: const CultureTypes SpecificCultures;

[VB] Public Const SpecificCultures As CultureTypes

[JScript] public var SpecificCultures : CultureTypes;

Description

Refers to cultures that are specific to a country/region. The names of these cultures follow the RFC 1766 standard in the format "-", where is a lowercase twoletter code derived from ISO 639-1 and is an uppercase two-letter code derived from ISO 3166. For example, "en-US".

DateTimeFormatInfo class (System.Globalization) **ToString**

Description

Defines how System.DateTime values are formatted and displayed, depending on the culture.

This class contains information, such as date patterns, time patterns, and AM/PM designators.

DateTimeFormatInfo

1	Example Syntax:
2	ToString
3	
4	[C#] public DateTimeFormatInfo();
5	[C++] public: DateTimeFormatInfo();
6	[VB] Public Sub New()
7	[JScript] public function DateTimeFormatInfo();
8	
9	Description
10	Initializes a new writable instance of the
11	System.Globalization.DateTimeFormatInfo class that is culture-independent
12	(invariant).
13	The properties of this instance can be modified with user-defined patterns.
14	AbbreviatedDayNames
15	ToString
16	
17	[C#] public string[] AbbreviatedDayNames {get; set;}
18	[C++] public:property String* get_AbbreviatedDayNames();public:property
19	void set_AbbreviatedDayNames(String*gc[]);
20	[VB] Public Property AbbreviatedDayNames As String ()
21	[JScript] public function get AbbreviatedDayNames() : String[];public function set
22	AbbreviatedDayNames(String[]);
23	
24	Description
25	

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Gets or sets a one-dimensional array of type **System.String** containing the abbreviated names of the days of the week.

If setting this property, the array must be one-dimensional and must have exactly seven elements.

AbbreviatedMonthNames

ToString

[C#] public string[] AbbreviatedMonthNames {get; set;}

[C++] public: __property String* get_AbbreviatedMonthNames();public:

property void set AbbreviatedMonthNames(String* __gc[]);

[VB] Public Property AbbreviatedMonthNames As String ()

[JScript] public function get AbbreviatedMonthNames() : String[];public function set AbbreviatedMonthNames(String[]);

Description

Gets or sets a one-dimensional array of type **System.String** containing the abbreviated names of the months.

If setting this property, the array must be one-dimensional and must have exactly 13 elements.

AMDesignator

ToString

[C#] public string AMDesignator {get; set;}

[C++] public: __property String* get_AMDesignator();public: __property void set AMDesignator(String*);

1	[VB] Public Property AMDesignator As String
2	[JScript] public function get AMDesignator(): String; public function set
3	AMDesignator(String);
4	
5	Description
6	Indicates the System.String designator for hours that are "ante meridiem"
7	(before noon).
8	If the custom pattern includes the format pattern "tt" and the time is before
9	noon, System.DateTime.ToString displays the value of
10	System.Globalization.DateTimeFormatInfo.AMDesignator in place of the "tt"
11	in the format pattern. If the custom pattern includes the format pattern "t", only the
12	first character of System.Globalization.DateTimeFormatInfo.AMDesignator is
13	displayed.
14	Calendar
15	ToString
16	
17	[C#] public Calendar Calendar {get; set;}
18	[C++] public:property Calendar* get_Calendar();public:property void
19	set_Calendar(Calendar*);
20	[VB] Public Property Calendar As Calendar
21	[JScript] public function get Calendar(): Calendar; public function set
22	Calendar(Calendar);
23	
24	Description
25	Gets or sets the calendar to use for the current culture.

1	The System.Globalization.DateTimeFormatInfo.Calendar property only
2	accepts calendars that are valid for the current culture of the current thread. The
3	System.Globalization.CultureInfo.Calendar property specifies the default
4	calendar for the culture and the
5	System.Globalization.CultureInfo.OptionalCalendars property specifies other
6	calendars supported by the culture.
7	CalendarWeekRule
8	ToString
9	
10	[C#] public CalendarWeekRule CalendarWeekRule {get; set;}
11	[C++] public:property CalendarWeekRule get_CalendarWeekRule();public:
12	property void set_CalendarWeekRule(CalendarWeekRule);
13	[VB] Public Property CalendarWeekRule As CalendarWeekRule
14	[JScript] public function get CalendarWeekRule() : CalendarWeekRule;public
15	function set CalendarWeekRule(CalendarWeekRule);
16	
17	Description
18	Gets or sets a value that specifies which rule is used to determine the first
19	calendar week of the year.
20	This property is affected if the value of the
21	System.Globalization.DateTimeFormatInfo.Calendar property changes.
22	CurrentInfo
23	ToString
24	
25	[C#] public static DateTimeFormatInfo CurrentInfo {get;}

П	Take I 11: Deta Time Townst Info * got Current Info ()
1	[C++] public:property static DateTimeFormatInfo* get_CurrentInfo();
2	[VB] Public Shared ReadOnly Property CurrentInfo As DateTimeFormatInfo
3	[JScript] public static function get CurrentInfo(): DateTimeFormatInfo;
4	
5	Description
6	Gets a read-only System. Globalization. Date Time Format Info instance
7	that formats values based on the current culture.
8	DateSeparator
9	ToString
10	
11	[C#] public string DateSeparator {get; set;}
12	[C++] public:property String* get_DateSeparator();public:property void
13	set_DateSeparator(String*);
14	[VB] Public Property DateSeparator As String
15	[JScript] public function get DateSeparator(): String;public function set
16	DateSeparator(String);
17	
18	Description
19	Indicates the System.String that separates the components of a date; that is
20	the year, month, and day.
21	If the custom pattern includes the format pattern "/",
22	System.DateTime.ToString displays the value of
23	System.Globalization.DateTimeFormatInfo.DateSeparator in place of the "/"
24	in the format pattern.
25	DayNames

1	ToString
2	
3	[C#] public string[] DayNames {get; set;}
4	[C++] public:property String* get_DayNames();public:property void
5	set_DayNames(String*gc[]);
6	[VB] Public Property DayNames As String ()
7	[JScript] public function get DayNames(): String[];public function set
8	DayNames(String[]);
9	
10	Description
11	Gets or sets a one-dimensional array of type System.String containing the
12	full names of the days of the week.
13	If setting this property, the array must be one-dimensional and must have
14	exactly seven elements.
15	FirstDayOfWeek
16	ToString
17	
18	[C#] public DayOfWeek FirstDayOfWeek {get; set;}
19	[C++] public:property DayOfWeek get_FirstDayOfWeek();public:property
20	void set_FirstDayOfWeek(DayOfWeek);
21	[VB] Public Property FirstDayOfWeek As DayOfWeek
22	[JScript] public function get FirstDayOfWeek(): DayOfWeek; public function set
23	FirstDayOfWeek(DayOfWeek);
24	
25	Description

	Indicates the first day of the week
1	Indicates the first day of the week.
2	This property is affected if the value of the
3	System.Globalization.DateTimeFormatInfo.Calendar property changes.
4	FullDateTimePattern
5	ToString
6	
7	[C#] public string FullDateTimePattern {get; set;}
8	[C++] public:property String* get_FullDateTimePattern();public:property
9	<pre>void set_FullDateTimePattern(String*);</pre>
10	[VB] Public Property FullDateTimePattern As String
11	[JScript] public function get FullDateTimePattern(): String;public function set
12	FullDateTimePattern(String);
13	
14	Description
15	Indicates the format pattern for a long date and long time value, which is
16	associated with the 'F' format character.
17	See System.Globalization.DateTimeFormatInfo for patterns that can be
18	combined to construct custom patterns; for example, "dddd, dd MMMM yyyy
19	HH:mm:ss".
20	InvariantInfo
21	ToString
22	
23	[C#] public static DateTimeFormatInfo InvariantInfo {get;}
24	[C++] public:property static DateTimeFormatInfo* get_InvariantInfo();
25	[VB] Public Shared ReadOnly Property InvariantInfo As DateTimeFormatInfo

1	[JScript] public static function get InvariantInfo() : DateTimeFormatInfo;
2	
3	Description
4	Gets the default read-only System.Globalization.DateTimeFormatInfo
5	instance that is culture-independent (invariant).
6	This property does not change regardless of the current culture.
7	IsReadOnly
8	ToString
9	
10	[C#] public bool IsReadOnly {get;}
11	[C++] public:property bool get_IsReadOnly();
12	[VB] Public ReadOnly Property IsReadOnly As Boolean
13	[JScript] public function get IsReadOnly(): Boolean;
14	
15	Description
16	Gets a value indicating whether the
17	System.Globalization.DateTimeFormatInfo is read-only.
18	LongDatePattern
19	ToString
20	
21	[C#] public string LongDatePattern {get; set;}
22	[C++] public:property String* get_LongDatePattern();public:property void
23	set_LongDatePattern(String*);
24	[VB] Public Property LongDatePattern As String
25	[JScript] public function get LongDatePattern(): String;public function set

1	LongDatePattern(String);
2	
3	Description
4	Indicates the format pattern for a long date value, which is associated with
5	the 'D' format character.
6	See System.Globalization.DateTimeFormatInfo for patterns that can be
7	combined to construct custom patterns; for example, "dddd, dd MMMM yyyy".
8	LongTimePattern
9	ToString
10	
11	[C#] public string LongTimePattern {get; set;}
12	[C++] public:property String* get_LongTimePattern();public:property void
13	set_LongTimePattern(String*);
14	[VB] Public Property LongTimePattern As String
15	[JScript] public function get LongTimePattern(): String;public function set
16	LongTimePattern(String);
17	
18	Description
19	Indicates the format pattern for a long time value, which is associated with
20	the 'T' format character.
21	See System.Globalization.DateTimeFormatInfo for patterns that can be
22	combined to construct custom patterns; for example, "HH:mm:ss".
23	MonthDayPattern
24	ToString
25	

1	
2	[C#] public string MonthDayPattern {get; set;}
3	[C++] public:property String* get_MonthDayPattern();public:property void
4	set_MonthDayPattern(String*);
5	[VB] Public Property MonthDayPattern As String
6	[JScript] public function get MonthDayPattern(): String;public function set
7	MonthDayPattern(String);
8	
9	Description
10	Indicates the format pattern for a month and day value, which is associated
11	with the 'm' and 'M' format characters.
12	See System.Globalization.DateTimeFormatInfo for patterns that can be
13	combined to construct custom patterns; for example, "MMMM dd".
14	MonthNames
15	ToString
16	
17	[C#] public string[] MonthNames {get; set;}
18	[C++] public:property String* get_MonthNames();public:property void
19	set_MonthNames(String*gc[]);
20	[VB] Public Property MonthNames As String ()
21	[JScript] public function get MonthNames(): String[];public function set
22	MonthNames(String[]);
23	
24	Description
25	

1 Gets or sets a one-dimensional array of type System. String containing the full names of the months. 2 If setting this property, the array must be one-dimensional and must have 3 exactly 13 elements. 4 **PMDesignator** 5 **ToString** 6 7 [C#] public string PMDesignator {get; set;} 8 [C++] public: __property String* get_PMDesignator();public: __property void set PMDesignator(String*); 10 [VB] Public Property PMDesignator As String 11 [JScript] public function get PMDesignator(): String; public function set 12 PMDesignator(String); 13 14 Description 15 Indicates the System.String designator for hours that are "post meridiem" 16 (after noon). 17 If the custom pattern includes the format pattern "tt" and the time is after 18 noon, System.DateTime.ToString displays the value of 19 System.Globalization.DateTimeFormatInfo.PMDesignator in place of the "tt" 20 in the format pattern. If the custom pattern includes the format pattern "t", only the 21 $first\ character\ of\ \textbf{System.Globalization.DateTimeFormatInfo.PMDesignator}\ is$ 22 displayed. 23 RFC1123Pattern 24

ToString

25

1	
2	[C#] public string RFC1123Pattern {get;}
3	[C++] public:property String* get_RFC1123Pattern();
4	[VB] Public ReadOnly Property RFC1123Pattern As String
5	[JScript] public function get RFC1123Pattern(): String;
6	
7	Description
8	Gets the format pattern for a time value, which is based on the Internet
9	Engineering Task Force (IETF) Request for Comments (RFC) 1123 specification
10	and is associated with the 'r' and 'R' format characters.
11	ShortDatePattern
12	ToString
13	
14	[C#] public string ShortDatePattern {get; set;}
15	[C++] public:property String* get_ShortDatePattern();public:property void
16	set_ShortDatePattern(String*);
17	[VB] Public Property ShortDatePattern As String
18	[JScript] public function get ShortDatePattern(): String;public function set
19	ShortDatePattern(String);
20	
21	Description
22	Indicates the format pattern for a short date value, which is associated with
23	the 'd' format character.
24	See System.Globalization.DateTimeFormatInfo for patterns that can be
25	combined to construct custom patterns; for example, "MM/dd/yyyy".

1	ShortTimePattern
2	ToString
3	
4	[C#] public string ShortTimePattern {get; set;}
5	[C++] public:property String* get_ShortTimePattern();public:property void
6	set_ShortTimePattern(String*);
7	[VB] Public Property ShortTimePattern As String
8	[JScript] public function get ShortTimePattern(): String; public function set
9	ShortTimePattern(String);
10	
11	Description
12	Indicates the format pattern for a short time value, which is associated with
13	the 't' format character.
14	See System.Globalization.DateTimeFormatInfo for patterns that can be
15	combined to construct custom patterns; for example, "HH:mm".
16	SortableDateTimePattern
17	ToString
18	
19	[C#] public string SortableDateTimePattern {get;}
20	[C++] public:property String* get_SortableDateTimePattern();
21	[VB] Public ReadOnly Property SortableDateTimePattern As String
22	[JScript] public function get SortableDateTimePattern(): String;
23	
24	Description
25	

1	Gets the format pattern for a sortable date and time value, which is
2	associated with the 's' format character.
3	TimeSeparator
4	ToString
5	
6	[C#] public string TimeSeparator {get; set;}
7	[C++] public:property String* get_TimeSeparator();public:property void
8	set_TimeSeparator(String*);
9	[VB] Public Property TimeSeparator As String
10	[JScript] public function get TimeSeparator(): String;public function set
11	TimeSeparator(String);
12	
13	Description
14	Indicates the System.String that separates the components of time; that is,
15	the hour, minutes, and seconds.
16	If the custom pattern includes the format pattern ":",
17	System.DateTime.ToString displays the value of
18	System.Globalization.DateTimeFormatInfo.TimeSeparator in place of the ":"
19	in the format pattern.
20	UniversalSortableDateTimePattern
21	ToString
22	
23	[C#] public string UniversalSortableDateTimePattern {get;}
24	[C++] public:property String* get_UniversalSortableDateTimePattern();
25	[VB] Public ReadOnly Property UniversalSortableDateTimePattern As String

1	[JScript] public function get UniversalSortableDateTimePattern(): String;
2	
3	Description
4	Gets the format pattern for a universal sortable date and time value, which
5	is associated with the 'u' and 'U' format characters.
6	YearMonthPattern
7	ToString
8	
9	[C#] public string YearMonthPattern {get; set;}
10	[C++] public:property String* get_YearMonthPattern();public:property void
11	set_YearMonthPattern(String*);
12	[VB] Public Property YearMonthPattern As String
13	[JScript] public function get YearMonthPattern(): String; public function set
14	YearMonthPattern(String);
15	
16	Description
17	Indicates the format pattern for a year and month value, which is associated
18	with the 'y' and 'Y' format characters.
19	See System.Globalization.DateTimeFormatInfo for patterns that can be
20	combined to construct custom patterns; for example, "yyyy MMMM".
21	Clone
22	
23	[C#] public object Clone();
24	[C++] public:sealed Object* Clone();
25	[VB] NotOverridable Public Function Clone() As Object

1	[JScript] public function Clone(): Object;
2	
3	Description
4	Creates a shallow copy of the
5	System.Globalization.DateTimeFormatInfo instance.
6	Return Value: A new System. Globalization. Date Time Format Info instance
7	copied from the original System. Globalization. Date Time Format Info instance
8	The clone is writable even if the original instance is read-only; therefore,
9	the properties of the clone can be modified with user-defined patterns.
10	GetAbbreviatedDayName
11	
12	[C#] public string GetAbbreviatedDayName(DayOfWeek dayofweek);
13	[C++] public: String* GetAbbreviatedDayName(DayOfWeek dayofweek);
14	[VB] Public Function GetAbbreviatedDayName(ByVal dayofweek As
15	DayOfWeek) As String
16	[JScript] public function GetAbbreviatedDayName(dayofweek : DayOfWeek) :
17	String; Gets the abbreviated name of the specified day of the week.
18	
19	Description
20	Gets the abbreviated name of the specified day of the week based on the
21	System.Globalization.CultureInfo of the current thread.
22	Return Value: The abbreviated name of the day of the week represented by
23	dayofweek .
24	For the default invariant System.Globalization.DateTimeFormatInfo
25	instance, this method returns a string from the

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System.Globalization.GregorianCalendar: dayofweek Return Value Sunday "Sun" Monday "Mon" Tuesday "Tue" Wednesday "Wed" Thursday "Thu" Friday "Fri" Saturday "Sat" A System.DayOfWeek value. GetAbbreviatedEraName [C#] public string GetAbbreviatedEraName(int era); [C++] public: String* GetAbbreviatedEraName(int era); [VB] Public Function GetAbbreviatedEraName(ByVal era As Integer) As String [JScript] public function GetAbbreviatedEraName(era:int): String; Description Gets the System.String containing the abbreviated name of the specified era, if an abbreviation exists. Return Value: A System.String containing the abbreviated name of the specified era, if an abbreviation exists. The valid values for era are listed in the System. Globalization. Calendar. Eras property of the appropriate class derived from System.Globalization.Calendar. For example: System.Globalization.JapaneseCalendar.Eras displays a list of eras that are supported by this implementation. The integer representing the era. GetAbbreviatedMonthName [C#] public string GetAbbreviatedMonthName(int month); [C++] public: String* GetAbbreviatedMonthName(int month);

[VB] Public Function GetAbbreviatedMonthName(ByVal month As Integer) As

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[JScript] public function GetAbbreviatedMonthName(month: int): String; Gets the abbreviated name of the specified month.

Description

Gets the abbreviated name of the specified month based on the **System.Globalization.CultureInfo** of the current thread.

Return Value: The abbreviated name of the month represented by month.

For the default invariant **System.Globalization.DateTimeFormatInfo** instance, this method returns a string from the

System.Globalization.GregorianCalendar: month Return Value 1 "Jan" 2 "Feb" 3 "Mar" 4 "Apr" 5 "May" 6 "Jun" 7 "Jul" 8 "Aug" 9 "Sep" 10 "Oct" 11 "Nov" 12 "Dec" 13 "" System.Globalization.Calendar objects can accommodate calendars with 13 months. For 12-month calendars, the empty string is always returned as the name of the 13th month. An integer from 1 through 13 representing the name of the month to retrieve.

GetAllDateTimePatterns

[C#] public string[] GetAllDateTimePatterns();

[C++] public: String* GetAllDateTimePatterns() __gc[];

[VB] Public Function GetAllDateTimePatterns() As String()

[JScript] public function GetAllDateTimePatterns(): String[]; Gets the standard patterns in which System.DateTime values can be formatted.

Description

1	Gets all the standard patterns in which System.DateTime values can be
2	formatted.
3	Return Value: An array containing the standard patterns in which
4	System.DateTime values can be formatted.
5	See the summary page of the System.Globalization.DateTimeFormatInfo
6	class for a list of the standard format characters and their associated patterns.
7	GetAllDateTimePatterns
8	
9	[C#] public string[] GetAllDateTimePatterns(char format);
10	[C++] public: String* GetAllDateTimePatterns(_wchar_t format)gc[];
11	[VB] Public Function GetAllDateTimePatterns(ByVal format As Char) As
12	String()
13	[JScript] public function GetAllDateTimePatterns(format : Char) : String[];
14	
15	Description
16	Gets all the standard patterns in which System.DateTime values can be
17	formatted using the specified format character.
18	Return Value: An array containing the standard patterns in which
19	System.DateTime values can be formatted using the specified format character.
20	See the summary page of the System. Globalization. Date Time Format Info
21	class for a list of the standard format characters and their associated patterns. A
22	standard format character.
23	GetDayName
24	
25	[C#] public string GetDayName(DayOfWeek dayofweek);

1	[C++] public: String* GetDayName(DayOfWeek dayofweek);
2	[VB] Public Function GetDayName(ByVal dayofweek As DayOfWeek) As String
3	[JScript] public function GetDayName(dayofweek : DayOfWeek) : String; Gets
4	the full name of the specified day of the week.
5	
6	Description
7	Gets the full name of the specified day of the week based on the
8	System.Globalization.CultureInfo of the current thread.
9	Return Value: The full name of the day of the week represented by dayofweek.
0	For the default invariant System. Globalization. Date Time Format Info
1	instance, this method returns a string from the
2	System.Globalization.GregorianCalendar: dayofweek Return Value Sunday
13	"Sunday" Monday "Monday" Tuesday "Tuesday" Wednesday "Wednesday"
14	Thursday "Thursday" Friday "Friday" Saturday "Saturday" A
15	System.DayOfWeek value.
16	GetEra
17	
18	[C#] public int GetEra(string eraName);
19	[C++] public: int GetEra(String* eraName);
20	[VB] Public Function GetEra(ByVal eraName As String) As Integer
21	[JScript] public function GetEra(eraName : String) : int;
22	
23	Description
24	Gets the integer representing the specified era.
25	Return Value: The integer representing the era, if eraName is valid; otherwise, -1.

The comparison with eraName is case-insensitive; for example, "A.D." is 1 equivalent to "a.d.". The System.String containing the name of the era. 2 GetEraName 3 [C#] public string GetEraName(int era); 5 [C++] public: String* GetEraName(int era); [VB] Public Function GetEraName(ByVal era As Integer) As String [JScript] public function GetEraName(era: int): String; 8 9 Description 10 Gets the System.String containing the name of the specified era. 11 Return Value: A System.String containing the name of the era. 12 The valid values for era are listed in the 13 System. Globalization. Calendar. Eras property of the appropriate class derived 14 from System.Globalization.Calendar. For example: 15 System.Globalization.JapaneseCalendar.Eras displays a list of eras that are 16 supported by this implementation. The integer representing the era. 17 GetFormat 18 19 [C#] public object GetFormat(Type formatType); 20 [C++] public: __sealed Object* GetFormat(Type* formatType); 21 [VB] NotOverridable Public Function GetFormat(ByVal formatType As Type) As 22 Object 23 [JScript] public function GetFormat(formatType : Type) : Object; 24 25

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Description

Gets an object of the specified type that provides a **System.DateTime** formatting service.

Return Value: The current instance of the

System.Globalization.DateTimeFormatInfo class, if *formatType* is the same as the type of the current instance; otherwise, **null** .

The Format(String, IFormatProvider) method supported by the base data types invoke this method when the current instance is passed as the System.IFormatProvider parameter. This method implements System.IFormatProvider.GetFormat(System.Type). The System.Type of the required formatting service.

GetInstance

[C#] public static DateTimeFormatInfo GetInstance(IFormatProvider provider); [C++] public: static DateTimeFormatInfo* GetInstance(IFormatProvider*

provider);

[VB] Public Shared Function GetInstance(ByVal provider As IFormatProvider)

As DateTimeFormatInfo

[JScript] public static function GetInstance(provider : IFormatProvider) :

DateTimeFormatInfo;

Description

 $\label{lem:GlobalizationDateTimeFormatInfo} Gets \ the \ {\bf System.Globalization.DateTimeFormatInfo} \ instance \ associated \\ with \ the \ specified \ {\bf System.IFormatProvider} \ .$

1	Return Value: A System. Globalization. Date Time Format Info instance
2	associated with the specified System.IFormatProvider.
3	This method uses the
4	System.IFormatProvider.GetFormat(System.Type) method of formatProvider
5	using System.Globalization.DateTimeFormatInfo as the Type parameter. If
6	formatProvider is null or if System.IFormatProvider.GetFormat(System.Type)
7	returns null , this method returns
8	System.Globalization.DateTimeFormatInfo.CurrentInfo . The
9	System.IFormatProvider that gets the
10	System.Globalization.DateTimeFormatInfo instance.
11	GetMonthName
12	
13	[C#] public string GetMonthName(int month);
14	[C++] public: String* GetMonthName(int month);
15	[VB] Public Function GetMonthName(ByVal month As Integer) As String
16	[JScript] public function GetMonthName(month: int): String; Gets the full name
17	of the specified month.
18	
19	Description
20	Gets the full name of the specified month based on the
21	System.Globalization.CultureInfo of the current thread.
22	Return Value: The full name of the month represented by month.
23	For the default invariant System.Globalization.DateTimeFormatInfo
24	instance, this method returns a string from the
25	System.Globalization.GregorianCalendar: month Return Value 1 "January" 2

1	"February" 3 "March" 4 "April" 5 "May" 6 "June" 7 "July" 8 "August" 9
2	"September" 10 "October" 11 "November" 12 "December" 13 ""
3	System.Globalization.Calendar objects can accommodate calendars with 13
4	months. For 12-month calendars, the empty string is always returned as the name
5	of the 13th month. An integer from 1 through 13 representing the name of the
6	month to retrieve.
7	ReadOnly
8	
9	[C#] public static DateTimeFormatInfo ReadOnly(DateTimeFormatInfo dtfi);
10	[C++] public: static DateTimeFormatInfo* ReadOnly(DateTimeFormatInfo* dtfi);
11	[VB] Public Shared Function ReadOnly(ByVal dtfi As DateTimeFormatInfo) As
12	DateTimeFormatInfo
13	[JScript] public static function ReadOnly(dtfi : DateTimeFormatInfo) :
14	DateTimeFormatInfo;
15	
16	Description
17	Returns a read-only System.Globalization.DateTimeFormatInfo
18	wrapper.
19	Return Value: A read-only System.Globalization.DateTimeFormatInfo wrapper
20	around $dt fi$.
21	This wrapper prevents any modifications to dtfi. The
22	System.Globalization.DateTimeFormatInfo to wrap.
23	DateTimeStyles enumeration (System.Globalization)
24	ToString
25	

4	
3	Description
4	Defines the format
5	System.DateTime.Parse
6	System.DateTime.Parse
7	rovider) methods parse a
8	The System.Glob
9	is the only value that is u
10	method, because System
11	leading, trailing, and inne
12	ToString
13	
14	[C#] public const DateTi
15	[C++] public: const Date
16	[VB] Public Const Adjus
17	[JScript] public var Adju
18	
19	Description
20	Indicates that the
21	Greenwich mean time (C
22	ToString

tting options that customize how the e(System.String) and Exact(System.String,System.String,System.IFormatP a string.

alization.DateTimeStyles.NoCurrentDateDefault value seful with the System.DateTime.Parse(System.String) .DateTime.Parse(System.String) always ignores er white-space characters.

imeStyles AdjustToUniversal;

eTimeStyles AdjustToUniversal;

stToUniversal As DateTimeStyles

stToUniversal: DateTimeStyles;

date and time must be converted to Universal Time or GMT).

[C#] public const DateTimeStyles AllowInnerWhite;

[C++] public: const DateTimeStyles AllowInnerWhite;

1	[VB] Public Const AllowInnerWhite As DateTimeStyles
2	[JScript] public var AllowInnerWhite: DateTimeStyles;
3	
4	Description
5	Indicates that extra white-space characters in the middle of the string must
6	be ignored.
7	ToString
8	
9	[C#] public const DateTimeStyles AllowLeadingWhite;
10	[C++] public: const DateTimeStyles AllowLeadingWhite;
11	[VB] Public Const AllowLeadingWhite As DateTimeStyles
12	[JScript] public var AllowLeadingWhite: DateTimeStyles;
13	
14	Description
15	Indicates that leading white-space characters must be ignored.
16	ToString
17	
18	[C#] public const DateTimeStyles AllowTrailingWhite;
19	[C++] public: const DateTimeStyles AllowTrailingWhite;
20	[VB] Public Const AllowTrailingWhite As DateTimeStyles
21	[JScript] public var AllowTrailingWhite: DateTimeStyles;
22	
23	Description
24	Indicates that trailing white-space characters must be ignored.
25	ToString

1	
2	[C#] public const DateTimeStyles AllowWhiteSpaces;
3	[C++] public: const DateTimeStyles AllowWhiteSpaces;
4	[VB] Public Const AllowWhiteSpaces As DateTimeStyles
5	[JScript] public var AllowWhiteSpaces : DateTimeStyles;
6	
7	Description
8	Indicates that extra white-space characters anywhere in the string must be
9	ignored. This value is a combination of the
10	System.Globalization.DateTimeStyles.AllowLeadingWhite,
11	System.Globalization.DateTimeStyles.AllowTrailingWhite, and
12	System.Globalization.DateTimeStyles.AllowInnerWhite values.
13	ToString
14	
15	[C#] public const DateTimeStyles NoCurrentDateDefault;
16	[C++] public: const DateTimeStyles NoCurrentDateDefault;
17	[VB] Public Const NoCurrentDateDefault As DateTimeStyles
18	[JScript] public var NoCurrentDateDefault : DateTimeStyles;
19	
20	Description
21	Indicates that, if the string does not include a date, the year, month, and day
22	will each be set to "1" instead of the current year, month, and day.
23	ToString
24	
25	[C#] public const DateTimeStyles None;

1	[C++] public: const DateTimeStyles None;
2	[VB] Public Const None As DateTimeStyles
3	[JScript] public var None : DateTimeStyles;
4	
5	Description
6	Indicates that the default formatting options must be used. This is the
7	default style for System.DateTime.Parse(System.String) and
8	System.DateTime.ParseExact(System.String,System.String,System.IFormatP
9	rovider) .
10	DaylightTime class (System.Globalization)
11	ToString
12	
13	
14	Description
15	Defines the period of daylight saving time.
16	Daylight saving time is a period during the year when the time is advanced,
17	usually by an hour, to take advantage of the extended daylight hours. At the end of
18	the period, the time is set back to the standard time.
19	DaylightTime
20	Example Syntax:
21	ToString
22	
23	[C#] public DaylightTime(DateTime start, DateTime end, TimeSpan delta);
24	[C++] public: DaylightTime(DateTime start, DateTime end, TimeSpan delta);
25	[VB] Public Sub New(ByVal start As DateTime, ByVal end As DateTime, ByVal

1	delta As TimeSpan)
2	[JScript] public function DaylightTime(start : DateTime, end : DateTime, delta :
3	TimeSpan);
4	
5	Description
6	Initializes a new instance of the System. Globalization. Daylight Time
7	class.
8	The start parameter becomes the value of the
9	System.Globalization.DaylightTime.Start property of the new instance. The end
10	parameter becomes the value of the System.Globalization.DaylightTime.End
11	property of the new instance. The delta parameter becomes the value of the
12	System.Globalization.DaylightTime.Delta property of the new instance. The
13	System.DateTime instance that represents the date and time when the daylight
14	saving period begins. The value must be in local time. The System.DateTime
15	instance that represents the date and time when the daylight saving period ends.
16	The value must be in local time. The System.TimeSpan instance that represents
17	the difference between the standard time and the daylight saving time in ticks.
18	Delta
19	ToString
20	
21	[C#] public TimeSpan Delta {get;}
22	[C++] public:property TimeSpan get_Delta();
23	[VB] Public ReadOnly Property Delta As TimeSpan
24	[JScript] public function get Delta(): TimeSpan;
25	

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	10
[C#] publi	11

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ts the System.TimeSpan instance that represents the difference between rd time and the daylight saving time.

the start of daylight saving time, the clock time is advanced by the time specified in this property. At the end of daylight saving time, the e is set back by the length of time specified in this property.

d

String

ic DateTime End {get;} [C++] public: property DateTime get_End(); [VB] Public ReadOnly Property End As DateTime [JScript] public function get End(): DateTime;

Description

Gets the System.DateTime instance that represents the date and time when the daylight saving period ends.

When the daylight saving period ends, the clock time is set back to the standard time.

Start

ToString

23

24

[C#] public DateTime Start {get;}

[C++] public: __property DateTime get_Start();

1	[VB] Public ReadOnly Property Start As DateTime
2	[JScript] public function get Start(): DateTime;
3	
4	Description
5	Gets the System.DateTime instance that represents the date and time when
6	the daylight saving period begins.
7	When the daylight saving period begins, the clock time is advanced by the
8	number of ticks defined in System. Globalization. Daylight Time. Delta to take
9	advantage of the extended daylight hours.
10	GregorianCalendar class (System.Globalization)
11	ToString
12	
13	
14	Description
15	Represents the Gregorian calendar.
16	The Gregorian calendar recognizes two eras: B.C. (before Christ) or B.C.E.
17	(before common era), and A.D. (Latin "Anno Domini", which means "in the year
18	of the Lord") or C.E. (common era). This implementation of the
19	System.Globalization.GregorianCalendar class recognizes only the current era
20	(A.D. or C.E.).
21	ToString
22	
23	[C#] public const int ADEra;
24	[C++] public: const int ADEra;
25	[VB] Public Const ADEra As Integer

1	[JScript] public var ADEra: int;
2	
3	Description
4	Represents the current era.
5	The Gregorian calendar recognizes two eras: B.C. (before Christ) or B.C.E.
6	(before common era), and A.D. (Latin "Anno Domini", which means "in the year
7	of the Lord") or C.E. (common era). This implementation of the
8	System.Globalization.GregorianCalendar class recognizes only the current era
9	(A.D. or C.E.). This field always returns 1.
10	GregorianCalendar
. 11	Example Syntax:
12	ToString
13	
14	[C#] public GregorianCalendar();
15	[C++] public: GregorianCalendar();
16	[VB] Public Sub New()
17	[JScript] public function GregorianCalendar(); Initializes a new instance of the
18	System.Globalization.GregorianCalendar class.
19	
20	Description
21	Initializes a new instance of the
22	System.Globalization.GregorianCalendar class using the default
23	System.Globalization.GregorianCalendarTypes value.
24	The default System.Globalization.GregorianCalendarTypes value is
25	System.Globalization.GregorianCalendarTypes.Localized .

1	GregorianCalendar
2	Example Syntax:
3	ToString
4	
5	[C#] public GregorianCalendar(GregorianCalendarTypes type);
6	[C++] public: GregorianCalendar(GregorianCalendarTypes type);
7	[VB] Public Sub New(ByVal type As GregorianCalendarTypes)
8	[JScript] public function GregorianCalendar(type: GregorianCalendarTypes);
9	
10	Description
11	Initializes a new instance of the
12	System.Globalization.GregorianCalendar class using the specified
13	System.Globalization.GregorianCalendarTypes value. The
14	System.Globalization.GregorianCalendarTypes value that denotes which
15	version of the calendar to create.
16	CalendarType
17	ToString
18	
19	[C#] public virtual GregorianCalendarTypes CalendarType {get; set;}
20	[C++] public:property virtual GregorianCalendarTypes
21	get_CalendarType();public:property virtual void
22	set_CalendarType(GregorianCalendarTypes);
23	[VB] Overridable Public Property CalendarType As GregorianCalendarTypes
24	[JScript] public function get CalendarType(): GregorianCalendarTypes;public
25	function set CalendarType(GregorianCalendarTypes);
•	

	Description
2	Gets or sets the System.Globalization.GregorianCalendarTypes value
3	that denotes the version of the current System. Globalization. Gregorian Calendar
4	
5	instance.
6	Eras
7	ToString
8	
9	[C#] public override int[] Eras {get;}
10	[C++] public:property virtual int get_Eras();
11	[VB] Overrides Public ReadOnly Property Eras As Integer ()
12	[JScript] public function get Eras(): int[];
13	
14	Description
15	Gets the list of eras in the System.Globalization.GregorianCalendar.
16	The Gregorian calendar recognizes two eras: B.C. (before Christ) or B.C.E
17	(before common era), and A.D. (Latin "Anno Domini", which means "in the year
18	of the Lord") or C.E. (common era). This implementation of the
19	System.Globalization.GregorianCalendar class recognizes only the current era
20	(A.D. or C.E.). This property always returns an array with only one element.
21	TwoDigitYearMax
22	ToString
23	
24	[C#] public override int TwoDigitYearMax {get; set;}
25	[C++] public:property virtual int get_TwoDigitYearMax();public:property

1	virtual void set_TwoDigitYearMax(int);
2	[VB] Overrides Public Property TwoDigitYearMax As Integer
3	[JScript] public function get TwoDigitYearMax(): int;public function set
4	TwoDigitYearMax(int);
5	
6	Description
7	Gets or sets the last year of a 100-year range that can be represented by a 2-
8	digit year.
9	This property allows a 2-digit year to be properly translated to a 4-digit
10	year. For example, if this property is set to 2029, the 100-year range is from 1930
11	to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit
12	value of 29 is interpreted as 2029.
13	AddMonths
14	
15	[C#] public override DateTime AddMonths(DateTime time, int months);
16	[C++] public: DateTime AddMonths(DateTime time, int months);
17	[VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal
18	months As Integer) As DateTime
19	[JScript] public override function AddMonths(time : DateTime, months : int) :
20	DateTime;
21	
22	Description
23	Returns a System.DateTime that is the specified number of months away
24	from the specified System.DateTime.
25	

Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime.

The year part of the resulting **System.DateTime** is affected if the resulting month is beyond the last month of the current year. The day part of the resulting **System.DateTime** is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of months to add.

AddWeeks

[C#] public override DateTime AddWeeks(DateTime time, int weeks);

[C++] public: DateTime AddWeeks(DateTime time, int weeks);

[VB] Overrides Public Function AddWeeks(ByVal time As DateTime, ByVal weeks As Integer) As DateTime

[JScript] public override function AddWeeks(time : DateTime, weeks : int) : DateTime;

Description

Returns a **System.DateTime** that is the specified number of weeks away from the specified **System.DateTime** .

Return Value: The System.DateTime that results from adding the specified number of weeks to the specified System.DateTime.

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If weeks is negative, the resulting **System.DateTime** would be earlier than the specified **System.DateTime**. The **System.DateTime** instance to add. The number of weeks to add.

AddYears

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[C#] public override DateTime AddYears(DateTime time, int years);

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years

As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) :

DateTime;

Description

Returns a **System.DateTime** that is the specified number of years away from the specified **System.DateTime** .

Return Value: The System.DateTime that results from adding the specified number of years to the specified System.DateTime.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of years to add.

GetDayOfMonth

1	
2	[C#] public override int GetDayOfMonth(DateTime time);
3	[C++] public: int GetDayOfMonth(DateTime time);
4	[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As
5	Integer
6	[JScript] public override function GetDayOfMonth(time : DateTime) : int;
7	
8	Description
9	Gets the day of the month in the specified System.DateTime.
10	Return Value: An integer from 1 to 31 that represents the day of the month in time
11	. The System.DateTime instance to read.
12	GetDayOfWeek
13	
14	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
15	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
16	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
17	DayOfWeek
18	[JScript] public override function GetDayOfWeek(time : DateTime) :
19	DayOfWeek;
20	
21	Description
22	Gets the day of the week in the specified System.DateTime.
23	Return Value: A System.DayOfWeek value that represents the day of the week in
24	time.
25	

The System.DayOfWeek values are Sunday, Monday, Tuesday, 1 Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to 2 read. 3 GetDayOfYear 5 [C#] public override int GetDayOfYear(DateTime time); 6 [C++] public: int GetDayOfYear(DateTime time); 7 [VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As 8 Integer 9 [JScript] public override function GetDayOfYear(time : DateTime) : int; 10 11 Description 12 Gets the day of the year in the specified System.DateTime. 13 Return Value: An integer from 1 to 366 that represents the day of the year in time. 14 The System.DateTime instance to read. 15 GetDaysInMonth 16 17 [C#] public override int GetDaysInMonth(int year, int month, int era); 18 [C++] public: int GetDaysInMonth(int year, int month, int era); 19 [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal 20 month As Integer, ByVal era As Integer) As Integer 21 [JScript] public override function GetDaysInMonth(year: int, month: int, era: 22 int): int; Gets the number of days in the specified month. 23 24

Description

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Gets the number of days in the month specified by the year, month, and era parameters.

Return Value: The number of days in the specified month in the specified year in the specified era.

For example, this method might return 28 or 29 for February (month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets the number of days in the specified year.

Description

Gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

For example, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

1	
2	[C#] public override int GetEra(DateTime time);
3	[C++] public: int GetEra(DateTime time);
4	[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer
5	[JScript] public override function GetEra(time : DateTime) : int;
6	
7	Description
8	Gets the era in the specified System.DateTime.
9	Return Value: An integer that represents the era in time.
10	The Gregorian calendar recognizes two eras: B.C. (before Christ) or B.C.E.
11	(before common era), and A.D. (Latin "Anno Domini", which means "in the year
12	of the Lord") or C.E. (common era). This implementation of the
13	System.Globalization.GregorianCalendar class recognizes only the current era
14	(A.D. or C.E.). The System.DateTime instance to read.
15	GetMonth
16	
17	[C#] public override int GetMonth(DateTime time);
18	[C++] public: int GetMonth(DateTime time);
19	[VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer
20	[JScript] public override function GetMonth(time : DateTime) : int;
21	
22	Description
23	Gets the month in the specified System.DateTime.
24	Return Value: An integer between 1 and 12 that represents the month in time. The
25	System.DateTime instance to read.

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[C#] public override int GetMonthsInYear(int year, int era);

[C++] public: int GetMonthsInYear(int year, int era);

[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets the number of months in the specified year.

Description

Gets the number of months in the year specified by the *year* and *era* parameters.

Return Value: The number of months in the specified year in the specified era. An integer that represents the year. An integer that represents the era.

GetYear

[C#] public override int GetYear(DateTime time);

[C++] public: int GetYear(DateTime time);

[VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer

[JScript] public override function GetYear(time : DateTime) : int;

Description

Gets the year in the specified System.DateTime.

Return Value: An integer between 1 and 9999 that represents the year in time. The System.DateTime instance to read.

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IsLeapDay

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[C#] public override bool IsLeapDay(int year, int month, int day, int era);

[C++] public: bool IsLeapDay(int year, int month, int day, int era);

[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month

As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:

int): Boolean; Determines whether the specified day is a leap day.

Description

Determines whether the date specified by the *year*, *month*, *day*, and *era* parameters is a leap day.

Return Value: true if the specified day is a leap day; otherwise, false.

A leap year in the Gregorian calendar is defined as a year that is evenly divisible by four, except if it is divisible by 100; however, years that are divisible by 400 are leap years. For example, the year 1900 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

[C++] public: bool IsLeapMonth(int year, int month, int era);

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal

month As Integer, ByVal era As Integer) As Boolean

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Description

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[JScript] public override function IsLeapMonth(year: int, month: int, era: int): Boolean; Determines whether the specified month is a leap month. Description Determines whether the month specified by the year, month, and era parameters is a leap month. Return Value: This method always returns false, unless overridden by a derived class. A leap year in the Gregorian calendar is defined as a year that is evenly divisible by four, except if it is divisible by 100; however, years that are divisible by 400 are leap years. For example, the year 1900 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the era. IsLeapYear [C#] public override bool IsLeapYear(int year, int era); [C++] public: bool IsLeapYear(int year, int era); [VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As Integer) As Boolean [JScript] public override function IsLeapYear(year: int, era: int): Boolean; Determines whether the specified year is a leap year.

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Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

A leap year in the Gregorian calendar is defined as a year that is evenly divisible by four, except if it is divisible by 100; however, years that are divisible by 400 are leap years. For example, the year 1900 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a System.DateTime that is set to the specified date.

Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public override function ToFourDigitYear(year: int): int;

Description

Converts the specified two-digit year to a four-digit year by using the System.Globalization.GregorianCalendar.TwoDigitYearMax property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

System.Globalization.GregorianCalendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within that 100-year range. For example, if

System.Globalization.GregorianCalendar.TwoDigitYearMax is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is

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1	interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029. A two-digit
2	integer that represents the year to convert.
3	GregorianCalendarTypes enumeration (System.Globalization)
4	ToString
5	
6	
7	Description
8	Defines the different language versions of the Gregorian calendar.
9	Each version differs by language.
10	ToString
11	
12	[C#] public const GregorianCalendarTypes Arabic;
13	[C++] public: const GregorianCalendarTypes Arabic;
14	[VB] Public Const Arabic As GregorianCalendarTypes
15	[JScript] public var Arabic : GregorianCalendarTypes;
16	
17	Description
18	Refers to the Arabic version of the Gregorian calendar.
19	ToString
20	
21	[C#] public const GregorianCalendarTypes Localized;
22	[C++] public: const GregorianCalendarTypes Localized;
23	[VB] Public Const Localized As GregorianCalendarTypes
24	[JScript] public var Localized : GregorianCalendarTypes;
25	

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Refers to the localized version of the Gregorian calendar, based on the language of the System.Globalization.CultureInfo that uses the System.Globalization.DateTimeFormatInfo instance.

ToString

[C#] public const GregorianCalendarTypes MiddleEastFrench;
 [C++] public: const GregorianCalendarTypes MiddleEastFrench;
 [VB] Public Const MiddleEastFrench As GregorianCalendarTypes
 [JScript] public var MiddleEastFrench: GregorianCalendarTypes;

Description

Refers to the Middle East French version of the Gregorian calendar.

ToString

[C#] public const GregorianCalendarTypes TransliteratedEnglish;
[C++] public: const GregorianCalendarTypes TransliteratedEnglish;
[VB] Public Const TransliteratedEnglish As GregorianCalendarTypes
[JScript] public var TransliteratedEnglish: GregorianCalendarTypes;

Description

Refers to the transliterated English version of the Gregorian calendar.

ToString

[C#] public const GregorianCalendarTypes TransliteratedFrench;
[C++] public: const GregorianCalendarTypes TransliteratedFrench;
[VB] Public Const TransliteratedFrench As GregorianCalendarTypes
[JScript] public var TransliteratedFrench : GregorianCalendarTypes;
Description
Refers to the transliterated French version of the Gregorian calendar.
ToString
[C#] public const GregorianCalendarTypes USEnglish;
[C++] public: const GregorianCalendarTypes USEnglish;
[VB] Public Const USEnglish As GregorianCalendarTypes
[JScript] public var USEnglish : GregorianCalendarTypes;
Description
Refers to the US English version of the Gregorian calendar.
HebrewCalendar class (System.Globalization)
ToString
Description
Represents the Hebrew calendar.
The Hebrew calendar recognizes two eras: B.C.E. (before the common era)
and A.M. (Latin "Anno Mundi", which means "the year of the world"). This

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implementation of the System. Globalization. Hebrew Calendar class recognizes only the current era (A.M.) and only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). **ToString** [C#] public static readonly int HebrewEra; [C++] public: static int HebrewEra; [VB] Public Shared ReadOnly HebrewEra As Integer [JScript] public static var HebrewEra: int; Description Represents the current era. The Hebrew calendar recognizes two eras: B.C.E. (before the common era) and A.M. (Latin "Anno Mundi", which means "the year of the world"). This implementation of the System. Globalization. Hebrew Calendar class recognizes only the current era (A.M.). This field always returns 1. HebrewCalendar Example Syntax: **ToString** [C#] public HebrewCalendar(); [C++] public: HebrewCalendar(); [VB] Public Sub New() [JScript] public function HebrewCalendar();

Description 2 Initializes a new instance of the System. Globalization. Hebrew Calendar 3 class. 4 **Eras** 5 **ToString** 7 [C#] public override int[] Eras {get;} 8 [C++] public: __property virtual int get_Eras(); 9 [VB] Overrides Public ReadOnly Property Eras As Integer () 10 [JScript] public function get Eras(): int[]; 11 12 Description 13 Gets the list of eras in the ${\bf System. Globalization. Hebrew Calendar}$. 14 The Hebrew calendar recognizes two eras: B.C.E. (before the common era) 15 and A.M. (Latin "Anno Mundi", which means "the year of the world"). This implementation of the System. Globalization. Hebrew Calendar class recognizes 17 only the current era (A.M.). This property always returns an array with only one 18 element. 19 TwoDigitYearMax 20 **ToString** 21 22 [C#] public override int TwoDigitYearMax {get; set;} 23 [C++] public: __property virtual int get_TwoDigitYearMax();public: __property 24 virtual void set TwoDigitYearMax(int); 25

[VB] Overrides Public Property TwoDigitYearMax As Integer

[JScript] public function get TwoDigitYearMax(): int;public function set

TwoDigitYearMax(int);

Description

Gets or sets the last year of a 100-year range that can be represented by a 2-digit year.

This implementation of the **System.Globalization.HebrewCalendar** class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar).

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

[C++] public: DateTime AddMonths(DateTime time, int months);

[VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime

[JScript] public override function AddMonths(time : DateTime, months : int) : DateTime;

Description

Returns a **System.DateTime** that is the specified number of months away from the specified **System.DateTime** .

Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime.

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This implementation of the System. Globalization. Hebrew Calendar class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). The System.DateTime instance to add. The number of months to add. AddYears [C#] public override DateTime AddYears(DateTime time, int years); [C++] public: DateTime AddYears(DateTime time, int years); [VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years As Integer) As DateTime [JScript] public override function AddYears(time : DateTime, years : int) : DateTime; Description Returns a System.DateTime that is the specified number of years away from the specified System.DateTime. Return Value: The System.DateTime that results from adding the specified number of years to the specified System.DateTime. This implementation of the System.Globalization.HebrewCalendar class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). The System.DateTime instance to add. The number of years to add. GetDayOfMonth [C#] public override int GetDayOfMonth(DateTime time); [C++] public: int GetDayOfMonth(DateTime time);

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[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As

1	Integer
2	[JScript] public override function GetDayOfMonth(time : DateTime) : int;
3	
4	Description
5	Gets the day of the month in the specified System.DateTime.
6	Return Value: An integer from 1 to 30 that represents the day of the month in time
7	. The System.DateTime instance to read.
8	GetDayOfWeek
9	
10	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
11	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
12	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
13	DayOfWeek
14	[JScript] public override function GetDayOfWeek(time : DateTime) :
15	DayOfWeek;
16	
17	Description
18	Gets the day of the week in the specified System.DateTime.
19	Return Value: A System.DayOfWeek value that represents the day of the week in
20	time .
21	The System.DayOfWeek values are Sunday which indicates Yom Rishon,
22	Monday which indicates Yom Sheni, Tuesday which indicates Yom Shlishi,
23	Wednesday which indicates Yom Reviee, Thursday which indicates Yom
24	Chamishi, Friday which indicates Yom Shishi, and Saturday which indicates

Shabat. The ${\bf System.DateTime}$ instance to read.

GetDayOfYear	r
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[C#] public override int GetDayOfYear(DateTime time);

[C++] public: int GetDayOfYear(DateTime time);

[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As Integer

[JScript] public override function GetDayOfYear(time : DateTime) : int;

Description

Gets the day of the year in the specified System.DateTime.

Return Value: An integer from 1 to 385 that represents the day of the year in time.

This implementation of the **System.Globalization.HebrewCalendar** class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). The **System.DateTime** instance to read.

GetDaysInMonth

[C#] public override int GetDaysInMonth(int year, int month, int era);

[C++] public: int GetDaysInMonth(int year, int month, int era);

[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInMonth(year: int, month: int, era:

int): int; Gets the number of days in the specified month.

Description

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Gets the number of days in the month specified by the year, month, and era parameters.

Return Value: The number of days in the specified month in the specified year in the specified era.

For example, this method might return 29 or 30 for Cheshvan, depending on the placement of Jewish holidays. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets the number of days in the specified year.

Description

Gets the number of days in the year specified by the year and era parameters.

Return Value: The number of days in the specified year in the specified era.

For example, this method might return an integer from 353 to 355 or from 383 to 385, depending on the placement of Jewish holidays and depending on whether year is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

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2	[C#] public override int GetEra(DateTime time);
3	[C++] public: int GetEra(DateTime time);
4	[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer
5	[JScript] public override function GetEra(time : DateTime) : int;
6	
7	Description
8	Gets the era in the specified System.DateTime .
9	Return Value: An integer that represents the era in time.
10	The Hebrew calendar recognizes two eras: B.C.E. (before the common era)
11	and A.M. (Latin "Anno Mundi", which means "the year of the world"). This
12	implementation of the System.Globalization.HebrewCalendar class recognizes
13	only the current era (A.M.) and only the Hebrew years 5343 to 6000 (1582 to 2240
14	in the Gregorian calendar). The System.DateTime instance to read.
15	GetMonth
16	
17	[C#] public override int GetMonth(DateTime time);
18	[C++] public: int GetMonth(DateTime time);
19	[VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer
20	[JScript] public override function GetMonth(time : DateTime) : int;
21	
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Description

23

Gets the month in the specified System.DateTime.

Return Value: An integer between 1 and 13 that represents the month in time. The System.DateTime instance to read.

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GetMonthsInYear

[C#] public override int GetMonthsInYear(int year, int era);

[C++] public: int GetMonthsInYear(int year, int era);

[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets the number of months in the specified year.

Description

Gets the number of months in the year specified by the *year* and *era* parameters.

Return Value: The number of months in the specified year in the specified era.

For example, this method might return 12 or 13, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetYear

[C#] public override int GetYear(DateTime time);

[C++] public: int GetYear(DateTime time);

[VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer

 $[JScript]\ public\ override\ function\ Get Year (time: Date Time): int;$

Description

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Return Value: An integer between 1 and 9999 that represents the year in time.

This implementation of the System.Globalization.HebrewCalendar class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). The System.DateTime instance to read.

IsLeapDay

[C#] public override bool IsLeapDay(int year, int month, int day, int era);
[C++] public: bool IsLeapDay(int year, int month, int day, int era);
[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean
[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:

int): Boolean; Determines whether the specified day is a leap day.

Gets the year in the specified **System.DateTime**.

Description

Determines whether the date specified by the *year*, *month*, *day*, and *era* parameters is a leap day.

Return Value: true if the specified day is a leap day; otherwise, false.

This implementation of the **System.Globalization.HebrewCalendar** class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

1	[C++] public: bool IsLeapMonth(int year, int month, int era);
2	[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal
3	month As Integer, ByVal era As Integer) As Boolean
4	[JScript] public override function IsLeapMonth(year: int, month: int, era: int):
5	Boolean; Determines whether the specified month is a leap month.
6	
7	Description
8	Determines whether the month specified by the year, month, and era
9	parameters is a leap month.
10	Return Value: true if the specified month is a leap month; otherwise, false.
11	This implementation of the System.Globalization.HebrewCalendar class
12	recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian
13	calendar). An integer that represents the year. An integer that represents the
14	month. An integer that represents the era.
15	IsLeapYear
16	
17	[C#] public override bool IsLeapYear(int year, int era);
18	[C++] public: bool IsLeapYear(int year, int era);
19	[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As
20	Integer) As Boolean
21	[JScript] public override function IsLeapYear(year: int, era: int): Boolean;
22	Determines whether the specified year is a leap year.
23	
24	Description
25	

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

This implementation of the **System.Globalization.HebrewCalendar** class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a **System.DateTime** that is set to the specified date.

Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The **System.DateTime** instance set to the specified date and time in the current era.

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ToFourDigitYear Integer Description

This implementation of the System. Globalization. Hebrew Calendar class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As

[JScript] public override function ToFourDigitYear(year: int): int;

Converts the specified two-digit year to a four-digit year by using the System.Globalization.HebrewCalendar.TwoDigitYearMax property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

This implementation of the System.Globalization.HebrewCalendar class recognizes only the Hebrew years 5343 to 6000 (1582 to 2240 in the Gregorian calendar). A two-digit integer that represents the year to convert.

HijriCalendar class (System.Globalization)

ToString

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2	
3	Description
4	Represents the Hijri calendar.
5	The Hijri calendar recognizes one era: A.H. (Latin "Anno Hegirae", which
6	means "the year of the migration" in reference to the migration of Muhammad
7	from Mecca).
8	ToString
9	
10	[C#] public static readonly int HijriEra;
11	[C++] public: static int HijriEra;
12	[VB] Public Shared ReadOnly HijriEra As Integer
13	[JScript] public static var HijriEra: int;
14	
15	Description
16	Represents the current era.
17	The Hijri calendar recognizes one era: A.H. (Latin "Anno Hegirae", which
18	means "the year of the migration" referring to the migration of Muhammad from
19	Mecca).
20	HijriCalendar
21	Example Syntax:
22	ToString
23	
24	[C#] public HijriCalendar();
25	[C++] public: HijriCalendar();

```
[VB] Public Sub New()
    [JScript] public function HijriCalendar();
2
3
    Description
           Initializes a new instance of the System. Globalization. HijriCalendar
5
    class.
           Eras
7
           ToString
8
9
    [C#] public override int[] Eras {get;}
10
    [C++] public: property virtual int get Eras();
11
    [VB] Overrides Public ReadOnly Property Eras As Integer ()
12
    [JScript] public function get Eras(): int[];
13
14
    Description
15
           Gets the list of eras in the System. Globalization. HijriCalendar.
16
           The Hijri calendar recognizes one era: A.H. (Latin "Anno Hegirae", which
17
    means "the year of the migration" referring to the migration of Muhammad from
18
    Mecca).
19
           TwoDigitYearMax
20
           ToString
21
22
    [C#] public override int TwoDigitYearMax {get; set;}
23
    [C++] public: property virtual int get TwoDigitYearMax();public: __property
24
    virtual void set_TwoDigitYearMax(int);
```

[VB] Overrides Public Property TwoDigitYearMax As Integer

[JScript] public function get TwoDigitYearMax(): int;public function set

TwoDigitYearMax(int);

Description

Gets or sets the last year of a 100-year range that can be represented by a 2-digit year.

This property allows a 2-digit year to be properly translated to a 4-digit year. For example, if this property is set to 1429, the 100-year range is from 1330 to 1429; therefore, a 2-digit value of 30 is interpreted as 1330, while a 2-digit value of 29 is interpreted as 1429.

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

[C++] public: DateTime AddMonths(DateTime time, int months);

[VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime

[JScript] public override function AddMonths(time : DateTime, months : int) : DateTime;

Description

Returns a $\mathbf{System.DateTime}$ that is the specified number of months away from the specified $\mathbf{System.DateTime}$.

Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime.

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The year part of the resulting System. Date Time is affected if the resulting month is beyond the last month of the current year. The day part of the resulting System.DateTime is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting System.DateTime remains the same as the specified System.DateTime. The **System.DateTime** instance to add. The number of months to add.

AddYears

[C#] public override DateTime AddYears(DateTime time, int years);

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) : DateTime;

Description

Returns a System.DateTime that is the specified number of years away from the specified System.DateTime.

Return Value: The System.DateTime that results from adding the specified number of years to the specified System. Date Time.

The day part of the resulting System.DateTime is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting System.DateTime remains the same as the specified

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1	System.DateTime . The System.DateTime instance to add. The number of years
2	to add.
3	GetDayOfMonth
4	
5	[C#] public override int GetDayOfMonth(DateTime time);
6	[C++] public: int GetDayOfMonth(DateTime time);
7	[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As
8	Integer
9	[JScript] public override function GetDayOfMonth(time : DateTime) : int;
10	
11	Description
12	Gets the day of the month in the specified System.DateTime.
13	Return Value: An integer from 1 to 30 that represents the day of the month in time
14	. The System.DateTime instance to read.
15	GetDayOfWeek
16	
17	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
18	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
19	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
20	DayOfWeek
21	[JScript] public override function GetDayOfWeek(time : DateTime) :
22	DayOfWeek;
23	
24	Description
25	

1	Gets the day of the week in the specified System.DateTime.
2	Return Value: A System.DayOfWeek value that represents the day of the week in
3	time .
4	The System.DayOfWeek values are Sunday which indicates Al-Ahad,
5	Monday which indicates Al-Ithnayn, Tuesday which indicates At-Thulaathaa',
6	Wednesday which indicates Al-Arbi'aa', Thursday which indicates Al-Khamiis,
7	Friday which indicates Al-Jumu'ah, and Saturday which indicates As-Sabt. The
8	System.DateTime instance to read.
9	GetDayOfYear
10	
11	[C#] public override int GetDayOfYear(DateTime time);
12	[C++] public: int GetDayOfYear(DateTime time);
13	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
14	Integer
15	[JScript] public override function GetDayOfYear(time : DateTime) : int;
16	
17	Description
18	Gets the day of the year in the specified System.DateTime.
19	Return Value: An integer from 1 to 355 that represents the day of the year in time
20	The System.DateTime instance to read.
21	GetDaysInMonth
22	
23	[C#] public override int GetDaysInMonth(int year, int month, int era);
24	[C++] public: int GetDaysInMonth(int year, int month, int era);
25	[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal
,	•

month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era: 2 int): int; Gets the number of days in the specified month. 3 4 Description 5 Gets the number of days in the month specified by the year, month, and 6 era parameters. 7 Return Value: The number of days in the specified month in the specified year in 8 the specified era. 9 For example, this method might return 29 or 30 for Zulhijjah (month = 12), 10 depending on whether year is a leap year. An integer that represents the year. An 11 integer that represents the month. An integer that represents the era. 12 GetDaysInYear 13 14 [C#] public override int GetDaysInYear(int year, int era); 15 [C++] public: int GetDaysInYear(int year, int era); 16 [VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal 17 era As Integer) As Integer 18 [JScript] public override function GetDaysInYear(year: int, era: int): int; Gets 19 the number of days in the specified year. 20

Description

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Gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

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Description

For example, this method might return 354 or 355, depending on whether year is a leap year. An integer that represents the year. An integer that represents the era. GetEra [C#] public override int GetEra(DateTime time); [C++] public: int GetEra(DateTime time); [VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer [JScript] public override function GetEra(time : DateTime) : int; Description Gets the era in the specified System.DateTime. Return Value: An integer that represents the era in time. The Hijri calendar recognizes one era: A.H. (Latin "Anno Hegirae", which means "the year of the migration" referring to the migration of Muhammad from Mecca). The System.DateTime instance to read. GetMonth [C#] public override int GetMonth(DateTime time); [C++] public: int GetMonth(DateTime time); [VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer [JScript] public override function GetMonth(time: DateTime): int;

Gets the month in the specified System.DateTime. 1 Return Value: An integer between 1 and 12 that represents the month in time. The 2 System.DateTime instance to read. 3 GetMonthsInYear 5 [C#] public override int GetMonthsInYear(int year, int era); 6 [C++] public: int GetMonthsInYear(int year, int era); 7 [VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal 8 era As Integer) As Integer 9 [JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets 10 the number of months in the specified year. 11 12 Description 13 Gets the number of months in the year specified by the year and era 14 parameters. 15 Return Value: The number of months in the specified year in the specified era. An 16 integer that represents the year. An integer that represents the era. 17 GetYear 18 19 [C#] public override int GetYear(DateTime time); 20 [C++] public: int GetYear(DateTime time); 21 [VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer 22 [JScript] public override function GetYear(time : DateTime) : int; 23 24

Description

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Gets the year in the specified System.DateTime.

Return Value: An integer between 1 and 9999 that represents the year in time. The **System.DateTime** instance to read.

IsLeapDay

[C#] public override bool IsLeapDay(int year, int month, int day, int era);

[C++] public: bool IsLeapDay(int year, int month, int day, int era);

[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month

As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:

int): Boolean; Determines whether the specified day is a leap day.

Description

Determines whether the date specified by the *year*, *month*, *day*, and *era* parameters is a leap day.

Return Value: true if the specified day is a leap day; otherwise, false.

In every 30-year cycle that ends with a year that is evenly divisible by 30, the 2nd, 5th, 7th, 10th, 13th, 16th, 18th, 21st, 24th, 26th, and 29th years are leap years. A common year has 354 days and a leap year has 355 days. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

[C++] public: bool IsLeapMonth(int year, int month, int era);

Description

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Boolean 2 [JScript] public override function IsLeapMonth(year: int, month: int, era: int): 3 Boolean; Determines whether the specified month is a leap month. 5 Description 6 Determines whether the month specified by the year, month, and era 7 parameters is a leap month. Return Value: This method always returns false, unless overridden by a derived class. 10 In every 30-year cycle that ends with a year that is evenly divisible by 30, 11 the 2nd, 5th, 7th, 10th, 13th, 16th, 18th, 21st, 24th, 26th, and 29th years are leap 12 years. A common year has 354 days and a leap year has 355 days. An integer that 13 represents the year. An integer that represents the month. An integer that 14 represents the era. 15 IsLeapYear 16 17 [C#] public override bool IsLeapYear(int year, int era); 18 [C++] public: bool IsLeapYear(int year, int era); 19 [VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As 20 Integer) As Boolean 21 [JScript] public override function IsLeapYear(year: int, era: int): Boolean; 22 Determines whether the specified year is a leap year. 23 24

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

In every 30-year cycle that ends with a year that is evenly divisible by 30, the 2nd, 5th, 7th, 10th, 13th, 16th, 18th, 21st, 24th, 26th, and 29th years are leap years. A common year has 354 days and a leap year has 355 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a System.DateTime that is set to the specified date.

Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in

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the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public override function ToFourDigitYear(year: int): int;

Description

Converts the specified two-digit year to a four-digit year by using the **System.Globalization.HijriCalendar.TwoDigitYearMax** property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

System.Globalization.HijriCalendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within that 100-year range. For example, if

System.Globalization.HijriCalendar.TwoDigitYearMax is set to 1429, the 100-year range is from 1330 to 1429; therefore, a 2-digit value of 30 is interpreted as 1330, while a 2-digit value of 29 is interpreted as 1429. A two-digit integer that represents the year to convert.

1	JapaneseCalendar class (System.Globalization)
2	ToString
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5	Description
6	Represents the Japanese calendar.
7	The Japanese calendar, which is also known as the Wareki calendar, works
8	exactly like the Gregorian calendar, except that the year and era are different.
9	JapaneseCalendar
10	Example Syntax:
11	ToString
12	
13	[C#] public JapaneseCalendar();
14	[C++] public: JapaneseCalendar();
15	[VB] Public Sub New()
16	[JScript] public function JapaneseCalendar();
17	
18	Description
19	Initializes a new instance of the System.Globalization.JapaneseCalendar
20	class.
21	Eras
22	ToString
23	
24	[C#] public override int[] Eras {get;}
25	[C++] public:property virtual int get_Eras();

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digit year.

[VB] Overrides Public ReadOnly Property Eras As Integer () [JScript] public function get Eras(): int[]; Description Gets the list of eras in the System. Globalization. Japanese Calendar. The Japanese calendar recognizes one era for every emperor's reign. The current era is the Heisei era, which began in the Gregorian calendar year 1989. The era name is typically displayed before the year. For example, the Gregorian calendar year 2001 is the Wareki calendar year Heisei 13. Note that the first year of an era is called "Gannen"; therefore, the Gregorian calendar year 1989 was the Wareki calendar year Heisei Gannen. TwoDigitYearMax **ToString** [C#] public override int TwoDigitYearMax {get; set;} [C++] public: property virtual int get TwoDigitYearMax();public: __property virtual void set TwoDigitYearMax(int); [VB] Overrides Public Property TwoDigitYearMax As Integer [JScript] public function get TwoDigitYearMax(): int;public function set TwoDigitYearMax(int); Description Gets or sets the last year of a 100-year range that can be represented by a 2-

This property implements

System.Globalization.Calendar.TwoDigitYearMax .

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

[C++] public: DateTime AddMonths(DateTime time, int months);

[VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime

[JScript] public override function AddMonths(time : DateTime, months : int) : DateTime;

Description

Returns a **System.DateTime** that is the specified number of months away from the specified **System.DateTime** .

Return Value: The **System.DateTime** that results from adding the specified number of months to the specified **System.DateTime**.

The year part of the resulting **System.DateTime** is affected if the resulting month is beyond the last month of the current year. The day part of the resulting **System.DateTime** is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of months to add.

AddYears

1 [C#] public override DateTime AddYears(DateTime time, int years); 2 [C++] public: DateTime AddYears(DateTime time, int years); 3 [VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years As Integer) As DateTime 5 [JScript] public override function AddYears(time : DateTime, years : int) : 6 DateTime; 7 8 Description 9 Returns a System.DateTime that is the specified number of years away 10 from the specified System.DateTime. 11 Return Value: The System.DateTime that results from adding the specified 12 number of years to the specified **System.DateTime**. 13 The day part of the resulting System. Date Time is affected if the resulting 14 day is not a valid day in the resulting month of the resulting year; it is changed to 15 the last valid day in the resulting month of the resulting year. The time-of-day part 16 of the resulting System.DateTime remains the same as the specified 17 System.DateTime . The System.DateTime instance to add. The number of years 18

GetDayOfMonth

to add.

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[C#] public override int GetDayOfMonth(DateTime time);

[C++] public: int GetDayOfMonth(DateTime time);

[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As Integer

[JScript] public override function GetDayOfMonth(time : DateTime) : int; 2 Description 3 Gets the day of the month in the specified System.DateTime. 4 Return Value: An integer from 1 to 31 that represents the day of the month in time . The **System.DateTime** instance to read. 6 GetDayOfWeek 7 8 [C#] public override DayOfWeek GetDayOfWeek(DateTime time); [C++] public: DayOfWeek GetDayOfWeek(DateTime time); 10 [VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As 11 DayOfWeek 12 [JScript] public override function GetDayOfWeek(time : DateTime) : 13 DayOfWeek; 14 15 Description 16 Gets the day of the week in the specified System.DateTime. 17 Return Value: A System.DayOfWeek value that represents the day of the week in 18 time. 19 The System.DayOfWeek values are Sunday which indicates NichiYoubi, 20 Monday which indicates GetsuYoubi, Tuesday which indicates KaYoubi, 21 Wednesday which indicates SuiYoubi, Thursday which indicates MokuYoubi, 22 Friday which indicates KinYoubi, and Saturday which indicates DouYoubi. The **System.DateTime** instance to read. 24 25 GetDayOfYear

1	
2	[C#] public override int GetDayOfYear(DateTime time);
3	[C++] public: int GetDayOfYear(DateTime time);
4	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
5	Integer
6	[JScript] public override function GetDayOfYear(time : DateTime) : int;
7	
8	Description
9	Gets the day of the year in the specified System.DateTime.
10	Return Value: An integer from 1 to 366 that represents the day of the year in time
11	The System.DateTime instance to read.
12	GetDaysInMonth
13	
l II	
14	[C#] public override int GetDaysInMonth(int year, int month, int era);
	[C#] public override int GetDaysInMonth(int year, int month, int era); [C++] public: int GetDaysInMonth(int year, int month, int era);
14	
14	[C++] public: int GetDaysInMonth(int year, int month, int era);
14 15 16	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal
14 15 16	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer
14 15 16 17	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era:
14	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era:
14 15 16 17 18 19 20	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era: int): int; Gets the number of days in the specified month.
14	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era: int): int; Gets the number of days in the specified month. Description
14	[C++] public: int GetDaysInMonth(int year, int month, int era); [VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer [JScript] public override function GetDaysInMonth(year: int, month: int, era: int): int; Gets the number of days in the specified month. Description Gets the number of days in the month specified by the year, month, and

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For example, this method might return 28 or 29 for NiGatsu (February,
month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets the number of days in the specified year.

Description

Gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

For example, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

[C#] public override int GetEra(DateTime time);

[C++] public: int GetEra(DateTime time);

[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer

[JScript] public override function GetEra(time : DateTime) : int;

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Description

Gets the era in the specified System.DateTime.

Return Value: An integer that represents the era in time.

The Japanese calendar recognizes one era for every emperor's reign. The current era is the Heisei era, which began in the Gregorian calendar year 1989. The era name is typically displayed before the year. For example, the Gregorian calendar year 2001 is the Wareki calendar year Heisei 13. Note that the first year of an era is called "Gannen"; therefore, the Gregorian calendar year 1989 was the Wareki calendar year Heisei Gannen. The **System.DateTime** instance to read.

GetMonth

[C#] public override int GetMonth(DateTime time);

[C++] public: int GetMonth(DateTime time);

[VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer [JScript] public override function GetMonth(time : DateTime) : int;

Description

Gets the month in the specified System.DateTime.

Return Value: An integer between 1 and 12 that represents the month in time. The System.DateTime instance to read.

GetMonthsInYear

[C#] public override int GetMonthsInYear(int year, int era);

[C++] public: int GetMonthsInYear(int year, int era);

[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal 1 era As Integer) As Integer 2 [JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets 3 the number of months in the specified year. 4 5 Description 6 Gets the number of months in the year specified by the year and era 7 parameters. 8 Return Value: The number of months in the specified year in the specified era. An integer that represents the year. An integer that represents the era. GetYear 11 12 [C#] public override int GetYear(DateTime time); 13 [C++] public: int GetYear(DateTime time); 14 [VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer 15 [JScript] public override function GetYear(time : DateTime) : int; 16 17 Description 18 Gets the year in the specified System.DateTime. 19 Return Value: An integer between 1 and 9999 that represents the year in time. The 20 System.DateTime instance to read. 21 **IsLeapDay** 22 23 [C#] public override bool IsLeapDay(int year, int month, int day, int era); 24 [C++] public: bool IsLeapDay(int year, int month, int day, int era);

[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month
As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean
[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:
int): Boolean; Determines whether the specified day is a leap day.

Description

Determines whether the date specified by the *year*, *month*, *day*, and *era* parameters is a leap day.

Return Value: true, if the specified day is a leap day; otherwise, false.

Leap years in the Japanese calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

Is Leap Month

[C#] public override bool IsLeapMonth(int year, int month, int era);
[C++] public: bool IsLeapMonth(int year, int month, int era);
[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal
month As Integer, ByVal era As Integer) As Boolean
[JScript] public override function IsLeapMonth(year: int, month: int, era: int)
Boolean; Determines whether the specified month is a leap month.

Description

Determines whether the month specified by the *year*, *month*, and *era* parameters is a leap month.

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Return Value: This method always returns false, unless overridden by a derived class.

Leap years in the Japanese calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the era.

IsLeapYear

[C#] public override bool IsLeapYear(int year, int era);

[C++] public: bool IsLeapYear(int year, int era);

[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapYear(year: int, era: int): Boolean; Determines whether the specified year is a leap year.

Description

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true, if the specified year is a leap year; otherwise, false.

Leap years in the Japanese calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour,

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int minute, int second, int millisecond, int era);
[C++] public: DateTime ToDateTime(int year, i

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a **System.DateTime** that is set to the specified date.

Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The **System.DateTime** instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public override function ToFourDigitYear(year: int): int; 2 Description 3 Converts the specified two-digit year to a four-digit year by using the 4 System.Globalization.JapaneseCalendar.TwoDigitYearMax property to 5 determine the appropriate century. 6 Return Value: An integer that contains the four-digit representation of year. 7 This method implements 8 System.Globalization.Calendar.ToFourDigitYear(System.Int32) . A two-digit 9 integer that represents the year to convert. 10 JulianCalendar class (System.Globalization) 11 **ToString** 12 13 14 Description 15 Represents the Julian calendar. 16 In 45 B.C., Julius Caesar ordered a calendar reform, which resulted in the 17 calendar called the Julian calendar. The Julian calendar is the predecessor of the 18 Gregorian calendar. 19 **ToString** 20 21 [C#] public static readonly int JulianEra; 22 [C++] public: static int JulianEra; 23 [VB] Public Shared ReadOnly JulianEra As Integer 24 [JScript] public static var JulianEra: int;

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    Description
2
           Represents the current era.
3
           The System.Globalization.JulianCalendar class recognizes only the
    current era. This field always returns 1.
5
           JulianCalendar
           Example Syntax:
           ToString
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9
    [C#] public JulianCalendar();
10
    [C++] public: JulianCalendar();
11
    [VB] Public Sub New()
12
    [JScript] public function JulianCalendar();
13
14
    Description
15
           Initializes a new instance of the System. Globalization. Julian Calendar
16
    class.
17
           Eras
18
            ToString
19
20
    [C#] public override int[] Eras {get;}
21
    [C++] public: __property virtual int get_Eras();
22
    [VB] Overrides Public ReadOnly Property Eras As Integer ()
23
    [JScript] public function get Eras(): int[];
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Gets the list of eras in the System.Globalization.JulianCalendar.

The **System.Globalization.JulianCalendar** class recognizes only the current era. This property always returns an array with only one element.

TwoDigitYearMax

ToString

[C#] public override int TwoDigitYearMax {get; set;}

[C++] public: __property virtual int get_TwoDigitYearMax();public: __property virtual void set TwoDigitYearMax(int);

[VB] Overrides Public Property TwoDigitYearMax As Integer

[JScript] public function get TwoDigitYearMax(): int;public function set

· ·

TwoDigitYearMax(int);

Description

Gets or sets the last year of a 100-year range that can be represented by a 2-digit year.

This property allows a 2-digit year to be properly translated to a 4-digit year. For example, if this property is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029.

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

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[C++] public: DateTime AddMonths(DateTime time, int months); [VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal 2 months As Integer) As DateTime 3 [JScript] public override function AddMonths(time: DateTime, months: int): 4 DateTime; 5 6 Description 7 Returns a System.DateTime that is the specified number of months away 8 from the specified System.DateTime. 9 Return Value: The System.DateTime that results from adding the specified 10 number of months to the specified System.DateTime. 11 The year part of the resulting System.DateTime is affected if the resulting 12 month is beyond the last month of the current year. The day part of the resulting 13 System.DateTime is also affected if the resulting day is not a valid day in the 14 resulting month of the resulting year; it is changed to the last valid day in the 15 resulting month of the resulting year. The time-of-day part of the resulting 16 System.DateTime remains the same as the specified System.DateTime. The 17

AddYears

[C#] public override DateTime AddYears(DateTime time, int years);

System.DateTime instance to add. The number of months to add.

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years

As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) :

lee@hayes pilc 509-324-9256 1781 MS1-862US.APP

DateTime;

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Description

Returns a **System.DateTime** that is the specified number of years away from the specified **System.DateTime** .

Return Value: The System.DateTime that results from adding the specified number of years to the specified System.DateTime.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of years to add.

GetDayOfMonth

[C#] public override int GetDayOfMonth(DateTime time);

[C++] public: int GetDayOfMonth(DateTime time);

[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As Integer

[JScript] public override function GetDayOfMonth(time : DateTime) : int;

Description

Gets the day of the month in the specified **System.DateTime**.

Return Value: An integer from 1 to 31 that represents the day of the month in time. The **System.DateTime** instance to read.

1	GetDayOfWeek
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3	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
4	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
5	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
6	DayOfWeek
7	[JScript] public override function GetDayOfWeek(time : DateTime) :
8	DayOfWeek;
9	
10	Description
11	Gets the day of the week in the specified System.DateTime.
12	Return Value: A System.DayOfWeek value that represents the day of the week in
13	time.
14	The System.DayOfWeek values are Sunday, Monday, Tuesday,
15	Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to
16	read.
17	GetDayOfYear
18	
19	[C#] public override int GetDayOfYear(DateTime time);
20	[C++] public: int GetDayOfYear(DateTime time);
21	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
22	Integer
23	[JScript] public override function GetDayOfYear(time : DateTime) : int;
24	
25	Description

24

Gets the day of the year in the specified System.DateTime.

Return Value: An integer from 1 to 366 that represents the day of the year in time.

The **System.DateTime** instance to read.

GetDaysInMonth

[C#] public override int GetDaysInMonth(int year, int month, int era);

[C++] public: int GetDaysInMonth(int year, int month, int era);

[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer

 $[JScript]\ public\ override\ function\ GetDaysInMonth (year: int, month: int, era: int$

int): int; Gets the number of days in the specified month.

Description

Gets the number of days in the month specified by the *year*, *month*, and *era* parameters.

Return Value: The number of days in the specified month in the specified year in the specified era.

For example, this method might return 28 or 29 for February (month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal

era As Integer) As Integer

[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets the number of days in the specified year.

Description

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Gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

For example, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

[C#] public override int GetEra(DateTime time);

[C++] public: int GetEra(DateTime time);

[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer [JScript] public override function GetEra(time : DateTime) : int;

Description

Gets the era in the specified System.DateTime.

Return Value: An integer that represents the era in time.

The **System.Globalization.JulianCalendar** class recognizes only the current era. The **System.DateTime** instance to read.

GetMonth

1 [C#] public override int GetMonth(DateTime time); [C++] public: int GetMonth(DateTime time); 3 [VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer [JScript] public override function GetMonth(time: DateTime): int; 5 6 Description 7 Gets the month in the specified System.DateTime. 8 Return Value: An integer between 1 and 12 that represents the month in time. The **System.DateTime** instance to read. 10 GetMonthsInYear 11 12 [C#] public override int GetMonthsInYear(int year, int era); 13 [C++] public: int GetMonthsInYear(int year, int era); 14 [VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal 15 era As Integer) As Integer 16 [JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets 17 the number of months in the specified year. 18 19 Description 20 Gets the number of months in the year specified by the year and era 21 parameters. 22 Return Value: The number of months in the specified year in the specified era. An integer that represents the year. An integer that represents the era. 24

GetYear

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2	[C#] public override int GetYear(DateTime time);
3	[C++] public: int GetYear(DateTime time);
4	[VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer
5	[JScript] public override function GetYear(time : DateTime) : int;
6	
7	Description
8	Gets the year in the specified System.DateTime.
9	Return Value: An integer between 1 and 9999 that represents the year in time. The
10	System.DateTime instance to read.
11	IsLeapDay
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13	[C#] public override bool IsLeapDay(int year, int month, int day, int era);
14	[C++] public: bool IsLeapDay(int year, int month, int day, int era);
15	[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month
16	As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean
17	[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:
18	int): Boolean; Determines whether the specified day is a leap day.
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20	Description
21	Determines whether the date specified by the year, month, day, and era
22	parameters is a leap day.
23	Return Value: true if the specified day is a leap day; otherwise, false.
24	Unlike the Gregorian calendar, the Julian calendar defines a leap year as a
25	year that is evenly divisible by four with no exceptions; therefore, the calendar is

inaccurate by one day every 128 years. For example, the year 1999 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

[C++] public: bool IsLeapMonth(int year, int month, int era);

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapMonth(year: int, month: int, era: int): Boolean; Determines whether the specified month is a leap month.

Description

Determines whether the month specified by the *year*, *month*, and *era* parameters is a leap month.

Return Value: This method always returns false, unless overridden by a derived class.

Unlike the Gregorian calendar, the Julian calendar defines a leap year as a year that is evenly divisible by four with no exceptions; therefore, the calendar is inaccurate by one day every 128 years. For example, the year 1999 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the era.

IsLeapYear

[C#] public override bool IsLeapYear(int year, int era);[C++] public: bool IsLeapYear(int year, int era);

[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapYear(year: int, era: int): Boolean; Determines whether the specified year is a leap year.

Description

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

Unlike the Gregorian calendar, the Julian calendar defines a leap year as a year that is evenly divisible by four with no exceptions; therefore, the calendar is inaccurate by one day every 128 years. For example, the year 1999 was not a leap year, but the year 2000 was. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute

As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As 1 Integer) As DateTime 2 [JScript] public override function ToDateTime(year: int, month: int, day: int, 3 hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns 4 a System.DateTime that is set to the specified date. 5 6 Description 7 Returns a System.DateTime that is set to the specified date and time in the 8 specified era. 9 Return Value: The System.DateTime instance set to the specified date and time in 10 the current era. An integer that represents the year. An integer that represents the 11 month. An integer that represents the day. An integer that represents the hour. An 12 integer that represents the minute. An integer that represents the second. An 13 integer that represents the millisecond. An integer that represents the era. 14 ToFourDigitYear 15 16 [C#] public override int ToFourDigitYear(int year); 17 [C++] public: int ToFourDigitYear(int year); 18 [VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer 20 [JScript] public override function ToFourDigitYear(year: int): int; 21 22 Description 23

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Converts the specified two-digit year to a four-digit year by using the ${\bf System. Globalization. Julian Calendar. Two Digit Year Max}\ property\ to\ determine$ the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

System.Globalization.JulianCalendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within that 100-year range. For example, if

System.Globalization.JulianCalendar.TwoDigitYearMax is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029. A two-digit integer that represents the year to convert.

KoreanCalendar class (System.Globalization)

ToString

Description

Represents the Korean calendar.

The Korean calendar works exactly like the Gregorian calendar, except that the year and era are different.

ToString

[C#] public const int KoreanEra;

[C++] public: const int KoreanEra;

[VB] Public Const KoreanEra As Integer

[JScript] public var KoreanEra: int;

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Description
Represents the current era.
The System.Globalization.KoreanCalendar class recognizes only the
current era. This field always returns 1.
KoreanCalendar
Example Syntax:
ToString
[C#] public KoreanCalendar();
[C++] public: KoreanCalendar();
[VB] Public Sub New()
[JScript] public function KoreanCalendar();
Description
Initializes a new instance of the System.Globalization.KoreanCalendar
class.
Eras
ToString
[C#] public override int[] Eras {get;}
[C++] public:property virtual int get_Eras();
[VB] Overrides Public ReadOnly Property Eras As Integer ()
[JScript] public function get Eras() : int[];

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Gets the list of eras in the System. Globalization. Korean Calendar.

The **System.Globalization.KoreanCalendar** class recognizes only the current era. This property always returns an array with only one element.

TwoDigitYearMax

ToString

[C#] public override int TwoDigitYearMax {get; set;}

[C++] public: __property virtual int get_TwoDigitYearMax();public: __property virtual void set TwoDigitYearMax(int);

[VB] Overrides Public Property TwoDigitYearMax As Integer

[JScript] public function get TwoDigitYearMax(): int;public function set TwoDigitYearMax(int);

Description

Gets or sets the last year of a 100-year range that can be represented by a 2-digit year.

This property allows a 2-digit year to be properly translated to a 4-digit year. For example, in the Gregorian calendar, if this property is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029.

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

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[C++] public: DateTime AddMonths(DateTime time, int months); [VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime [JScript] public override function AddMonths(time: DateTime, months: int): DateTime; Description Returns a System.DateTime that is the specified number of months away

from the specified System.DateTime.

Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime.

The year part of the resulting System.DateTime is affected if the resulting month is beyond the last month of the current year. The day part of the resulting System.DateTime is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting System.DateTime remains the same as the specified System.DateTime. The System.DateTime instance to add. The number of months to add.

AddYears

[C#] public override DateTime AddYears(DateTime time, int years);

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years

As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) :

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DateTime;

Description

Returns a **System.DateTime** that is the specified number of years away from the specified **System.DateTime** .

Return Value: The System.DateTime that results from adding the specified number of years to the specified System.DateTime.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of years to add.

GetDayOfMonth

[C#] public override int GetDayOfMonth(DateTime time);

[C++] public: int GetDayOfMonth(DateTime time);

[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As Integer

 $[JScript]\ public\ override\ function\ GetDayOfMonth(time: DateTime): int;$

Description

Gets the day of the month in the specified System.DateTime.

Return Value: An integer from 1 to 31 that represents the day of the month in time.

The System.DateTime instance to read.

1	GetDayOfWeek
2	
3	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
4	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
5	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
6	DayOfWeek
7	[JScript] public override function GetDayOfWeek(time : DateTime) :
8	DayOfWeek;
9	
10	Description
11	Gets the day of the week in the specified System.DateTime.
12	Return Value: A System.DayOfWeek value that represents the day of the week in
13	time .
14	The System.DayOfWeek values are Sunday, Monday, Tuesday,
15	Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to
16	read.
17	GetDayOfYear
18	
19	[C#] public override int GetDayOfYear(DateTime time);
20	[C++] public: int GetDayOfYear(DateTime time);
21	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
22	Integer
23	[JScript] public override function GetDayOfYear(time : DateTime) : int;
24	
25	Description

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Gets the day of the year in the specified System.DateTime.

Return Value: An integer from 1 to 366 that represents the day of the year in time.

The **System.DateTime** instance to read.

GetDaysInMonth

[C#] public override int GetDaysInMonth(int year, int month, int era);

[C++] public: int GetDaysInMonth(int year, int month, int era);

[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInMonth(year: int, month: int, era: int): int; Gets the number of days in the specified month.

Description

Gets the number of days in the month specified by the *year*, *month*, and *era* parameters.

Return Value: The number of days in the specified month in the specified year in the specified era.

For example, this method might return 28 or 29 for February, month = 2), depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal

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era As Integer) As Integer

[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets
the number of days in the specified year.

Description

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Gets the number of days in the year specified by the *year* and *era* parameters.

Return Value: The number of days in the specified year in the specified era.

For example, this method might return 365 or 366, depending on whether *year* is a leap year. An integer that represents the year. An integer that represents the era.

GetEra

[C#] public override int GetEra(DateTime time);

[C++] public: int GetEra(DateTime time);

[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer [JScript] public override function GetEra(time : DateTime) : int;

Description

Gets the era in the specified System.DateTime.

Return Value: An integer that represents the era in time.

The **System.Globalization.KoreanCalendar** class recognizes only the current era. The **System.DateTime** instance to read.

GetMonth

1	
2	[C#] public override int GetMonth(DateTime time);
3	[C++] public: int GetMonth(DateTime time);
4	[VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer
5	[JScript] public override function GetMonth(time : DateTime) : int;
6	
7	Description
8	Gets the month in the specified System.DateTime.
9	Return Value: An integer between 1 and 12 that represents the month in time. The
10	System.DateTime instance to read.
11	GetMonthsInYear
12	
13	[C#] public override int GetMonthsInYear(int year, int era);
14	[C++] public: int GetMonthsInYear(int year, int era);
15	[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal
16	era As Integer) As Integer
17	[JScript] public override function GetMonthsInYear(year : int, era : int) : int; Gets
18	the number of months in the specified year.
19	
20	Description
21	Gets the number of months in the year specified by the year and era
22	parameters.
23	Return Value: The number of months in the specified year in the specified era. An
24	integer that represents the year. An integer that represents the era.
25	GetYear

1 [C#] public override int GetYear(DateTime time); 2 [C++] public: int GetYear(DateTime time); 3 [VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer 4 [JScript] public override function GetYear(time: DateTime): int; 5 6 Description 7 Gets the year in the specified System.DateTime. 8 Return Value: An integer between 1 and 9999 that represents the year in time. The 9 **System.DateTime** instance to read. 10 IsLeapDay 11 12 [C#] public override bool IsLeapDay(int year, int month, int day, int era); 13 [C++] public: bool IsLeapDay(int year, int month, int day, int era); 14 [VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month 15 As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean [JScript] public override function IsLeapDay(year: int, month: int, day: int, era: 17 int): Boolean; Determines whether the specified day is a leap day. 18 19 Description 20 Determines whether the date specified by the year, month, day, and era 21 parameters is a leap day. 22 Return Value: true if the specified day is a leap day; otherwise, false. 23 Leap years in the Korean calendar correspond to the same leap years in the 24 Gregorian calendar. A common year has 365 days and a leap year has 366 days.

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An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

[C++] public: bool IsLeapMonth(int year, int month, int era);

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapMonth(year: int, month: int, era: int): Boolean; Determines whether the specified month is a leap month.

Description

Determines whether the month specified by the *year*, *month*, and *era* parameters is a leap month.

Return Value: This method always returns false, unless overridden by a derived class.

Leap years in the Korean calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the era.

IsLeapYear

[C#] public override bool IsLeapYear(int year, int era);

[C++] public: bool IsLeapYear(int year, int era);

[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As

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[JScript] public override function IsLeapYear(year: int, era: int): Boolean; Determines whether the specified year is a leap year.

Description

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

Leap years in the Korean calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days.

An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a **System.DateTime** that is set to the specified date.

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Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public override function ToFourDigitYear(year: int): int;

Description

Converts the specified two-digit year to a four-digit year by using the **System.Globalization.KoreanCalendar.TwoDigitYearMax** property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

System.Globalization.KoreanCalendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within that 100-

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year range. For example, if 1 System.Globalization.KoreanCalendar.TwoDigitYearMax is set to 2029, the 2 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted 3 as 1930, while a 2-digit value of 29 is interpreted as 2029. A two-digit integer that 4 represents the year to convert. 5 NumberFormatInfo class (System.Globalization) **ToString** 7 8 9 Description 10 Defines how numeric values are formatted and displayed, depending on the 11 culture. 12 This class contains information, such as currency, decimal separators, and 13 other numeric symbols. Numeric values are formatted using standard or custom 14 patterns stored in the properties of a System. Globalization. Number Format Info 15 instance. To modify how a value is displayed, the 16 System.Globalization.NumberFormatInfo instance must be writable so custom 17 patterns can be saved in its properties. 18 NumberFormatInfo 19 Example Syntax: 20 **ToString** 21 22 [C#] public NumberFormatInfo(); 23 [C++] public: NumberFormatInfo(); 24

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[VB] Public Sub New()

1	[JScript] public function NumberFormatInfo();
2	
3	Description
4	Initializes a new writable instance of the
5	System.Globalization.NumberFormatInfo class that is culture-independent
6	(invariant).
7	The properties of the new instance can be modified if you want user-
8	defined formatting.
9	CurrencyDecimalDigits
10	ToString
11	
12	[C#] public int CurrencyDecimalDigits {get; set;}
13	[C++] public:property int get_CurrencyDecimalDigits();public:property
14	void set_CurrencyDecimalDigits(int);
15	[VB] Public Property CurrencyDecimalDigits As Integer
16	[JScript] public function get CurrencyDecimalDigits(): int;public function se
17	CurrencyDecimalDigits(int);
18	
19	Description
20	Indicates the number of decimal places to use in currency values.
21	CurrencyDecimalSeparator
22	ToString
23	
24	[C#] public string CurrencyDecimalSeparator {get; set;}
25	[C++] public:property String* get_CurrencyDecimalSeparator();public:

1	property void set_CurrencyDecimalSeparator(String*);
2	[VB] Public Property CurrencyDecimalSeparator As String
3	[JScript] public function get CurrencyDecimalSeparator(): String; public function
4	set CurrencyDecimalSeparator(String);
5	
6	Description
7	Indicates the System.String to use as the decimal separator in currency
8	values.
9	CurrencyGroupSeparator
10	ToString
11	
12	[C#] public string CurrencyGroupSeparator {get; set;}
13	[C++] public:property String* get_CurrencyGroupSeparator();public:
14	property void set_CurrencyGroupSeparator(String*);
15	[VB] Public Property CurrencyGroupSeparator As String
16	[JScript] public function get CurrencyGroupSeparator(): String;public function set
17	CurrencyGroupSeparator(String);
18	
19	Description
20	Indicates the System.String that separates groups of digits to the left of the
21	decimal in currency values.
22	CurrencyGroupSizes
23	ToString
24	
25	[C#] public int[] CurrencyGroupSizes {get; set;}

1	[C++] public:property int get_CurrencyGroupSizes();public:property void
2	set_CurrencyGroupSizes(intgc[]);
3	[VB] Public Property CurrencyGroupSizes As Integer ()
4	[JScript] public function get CurrencyGroupSizes(): int[];public function set
5	CurrencyGroupSizes(int[]);
6	
7	Description
8	Indicates the number of digits in each group to the left of the decimal in
9	currency values.
10	Every element in the one-dimensional array must be an integer from 1
11	through 9. The last element can be 0.
12	CurrencyNegativePattern
13	ToString
14	
15	[C#] public int CurrencyNegativePattern {get; set;}
16	[C++] public:property int get_CurrencyNegativePattern();public:property
17	void set_CurrencyNegativePattern(int);
18	[VB] Public Property CurrencyNegativePattern As Integer
19	[JScript] public function get CurrencyNegativePattern(): int;public function set
20	CurrencyNegativePattern(int);
21	
22	Description
23	Indicates the format pattern for negative currency values.
24	This property can have one of the values in the following table. The symbol
25	"\$" is the System.Globalization.NumberFormatInfo.CurrencySymbol, the

1	$symbol \hbox{ "-" is the $System.} \textbf{Globalization.} \textbf{NumberFormatInfo.} \textbf{NegativeSign} \ , \ \text{and} \\$
2	n is a number.
3	CurrencyPositivePattern
4	ToString
5	
6	[C#] public int CurrencyPositivePattern {get; set;}
7	[C++] public:property int get_CurrencyPositivePattern();public:property
8	<pre>void set_CurrencyPositivePattern(int);</pre>
9	[VB] Public Property CurrencyPositivePattern As Integer
10	[JScript] public function get CurrencyPositivePattern(): int;public function set
11	CurrencyPositivePattern(int);
12	
13	Description
14	Indicates the format pattern for positive currency values.
15	This property can have one of the values in the following table. The symbol
16	"\$" is the System.Globalization.NumberFormatInfo.CurrencySymbol and n is
17	a number.
18	CurrencySymbol
19	ToString
20	
21	[C#] public string CurrencySymbol {get; set;}
22	[C++] public:property String* get_CurrencySymbol();public:property void
23	set_CurrencySymbol(String*);
24	[VB] Public Property CurrencySymbol As String
25	[JScript] public function get CurrencySymbol(): String;public function set

1	CurrencySymbol(String);
2	
3	Description
4	Indicates the System.String to use as the currency symbol.
5	CurrentInfo
6	ToString
7	
8	[C#] public static NumberFormatInfo CurrentInfo {get;}
9	[C++] public:property static NumberFormatInfo* get_CurrentInfo();
10	[VB] Public Shared ReadOnly Property CurrentInfo As NumberFormatInfo
11	[JScript] public static function get CurrentInfo(): NumberFormatInfo;
12	
13	Description
14	Gets a read-only System. Globalization. Number Format Info instance that
15	formats values based on the current culture.
16	InvariantInfo
17	ToString
18	
19	[C#] public static NumberFormatInfo InvariantInfo {get;}
20	[C++] public:property static NumberFormatInfo* get_InvariantInfo();
21	[VB] Public Shared ReadOnly Property InvariantInfo As NumberFormatInfo
22	[JScript] public static function get InvariantInfo(): NumberFormatInfo;
23	
24	Description
25	

1	Gets the default read-only System.Globalization.NumberFormatInfo
2	instance that is culture-independent (invariant).
3	This property does not change, regardless of the current culture.
4	IsReadOnly
5	ToString
6	
7	[C#] public bool IsReadOnly {get;}
8	[C++] public:property bool get_IsReadOnly();
9	[VB] Public ReadOnly Property IsReadOnly As Boolean
10	[JScript] public function get IsReadOnly(): Boolean;
11	
12	Description
13	Gets a value indicating whether the
14	System.Globalization.NumberFormatInfo is read-only.
15	NaNSymbol
16	ToString
17	
18	[C#] public string NaNSymbol {get; set;}
19	[C++] public:property String* get_NaNSymbol();public:property void
20	set_NaNSymbol(String*);
21	[VB] Public Property NaNSymbol As String
22	[JScript] public function get NaNSymbol(): String; public function set
23	NaNSymbol(String);
24	
25	Description

1	Indicates the System.String that represents the IEEE NaN (not a number)
2	value.
3	NegativeInfinitySymbol
4	ToString
5	
6	[C#] public string NegativeInfinitySymbol {get; set;}
7	[C++] public:property String* get_NegativeInfinitySymbol();public:
8	property void set_NegativeInfinitySymbol(String*);
9	[VB] Public Property NegativeInfinitySymbol As String
10	[JScript] public function get NegativeInfinitySymbol(): String;public function set
11	NegativeInfinitySymbol(String);
12	
13	Description
14	Indicates the System.String that represents negative infinity.
15	NegativeSign
16	ToString
17	
18	[C#] public string NegativeSign {get; set;}
19	[C++] public:property String* get_NegativeSign();public:property void
20	set_NegativeSign(String*);
21	[VB] Public Property NegativeSign As String
22	[JScript] public function get NegativeSign(): String;public function set
23	NegativeSign(String);
24	
25	Description

1	Indicates the System.String that denotes that the associated number is
2	negative.
3	NumberDecimalDigits
4	ToString
5	
6	[C#] public int NumberDecimalDigits {get; set;}
7	[C++] public:property int get_NumberDecimalDigits();public:property void
8	set_NumberDecimalDigits(int);
9	[VB] Public Property NumberDecimalDigits As Integer
10	[JScript] public function get NumberDecimalDigits(): int;public function set
11	NumberDecimalDigits(int);
12	
13	Description
14	Indicates the number of decimal places to use in numeric values.
15	NumberDecimalSeparator
16	ToString
17	
18	[C#] public string NumberDecimalSeparator {get; set;}
19	[C++] public:property String* get_NumberDecimalSeparator();public:
20	property void set_NumberDecimalSeparator(String*);
21	[VB] Public Property NumberDecimalSeparator As String
22	[JScript] public function get NumberDecimalSeparator(): String; public function
23	set NumberDecimalSeparator(String);
24	
25	Description

1 Indicates the System.String to use as the decimal separator in numeric values. 2 NumberGroupSeparator 3 **ToString** 4 5 [C#] public string NumberGroupSeparator {get; set;} 6 [C++] public: __property String* get_NumberGroupSeparator();public: 7 property void set_NumberGroupSeparator(String*); 8 [VB] Public Property NumberGroupSeparator As String 9 [JScript] public function get NumberGroupSeparator(): String;public function set 10 NumberGroupSeparator(String); 11 12 Description 13 Indicates the System.String that separates groups of digits to the left of the 14 decimal in numeric values. 15 NumberGroupSizes 16 **ToString** 17 18 [C#] public int[] NumberGroupSizes {get; set;} 19 [C++] public: __property int get_NumberGroupSizes();public: __property void 20 set NumberGroupSizes(int __gc[]); 21 [VB] Public Property NumberGroupSizes As Integer () 22 [JScript] public function get NumberGroupSizes(): int[];public function set NumberGroupSizes(int[]); 24 25

1	
2	Description
3	Indicates the number of digits in each group to the left of the decimal in
4	numeric values.
5	Every element in the one-dimensional array must be an integer from 1
6	through 9. The last element can be 0.
7	NumberNegativePattern
8	ToString
9	
10	[C#] public int NumberNegativePattern {get; set;}
11	[C++] public:property int get_NumberNegativePattern();public:property
12	void set_NumberNegativePattern(int);
13	[VB] Public Property NumberNegativePattern As Integer
14	[JScript] public function get NumberNegativePattern(): int;public function set
15	NumberNegativePattern(int);
16	
17	Description
18	Indicates the format pattern for negative numeric values.
19	This property can have one of the values in the following table. The symbol
20	"-" is the System.Globalization.NumberFormatInfo.NegativeSign and n is a
21	number.
22	PercentDecimalDigits
23	ToString
24	
25	[C#] public int PercentDecimalDigits {get; set;}

1	[C++] public:property int get_PercentDecimalDigits();public:property void
2	set_PercentDecimalDigits(int);
3	[VB] Public Property PercentDecimalDigits As Integer
4	[JScript] public function get PercentDecimalDigits(): int;public function set
5	PercentDecimalDigits(int);
6	
7	Description
8	Indicates the number of decimal places to use in percent values.
9	PercentDecimalSeparator
10	ToString
11	
12	[C#] public string PercentDecimalSeparator {get; set;}
13	[C++] public:property String* get_PercentDecimalSeparator();public:
14	property void set_PercentDecimalSeparator(String*);
15	[VB] Public Property PercentDecimalSeparator As String
16	[JScript] public function get PercentDecimalSeparator(): String; public function
17	set PercentDecimalSeparator(String);
18	
19	Description
20	Indicates the System.String to use as the decimal separator in percent
21	values.
22	PercentGroupSeparator
23	ToString
24	
25	[C#] public string PercentGroupSeparator {get; set;}

1	[C++] public:property String* get_PercentGroupSeparator();public:property
2	<pre>void set_PercentGroupSeparator(String*);</pre>
3	[VB] Public Property PercentGroupSeparator As String
4	[JScript] public function get PercentGroupSeparator(): String;public function set
5	PercentGroupSeparator(String);
6	
7	Description
8	Indicates the System.String that separates groups of digits to the left of the
9	decimal in percent values.
10	PercentGroupSizes
11	ToString
12	
13	[C#] public int[] PercentGroupSizes {get; set;}
14	[C++] public:property int get_PercentGroupSizes();public:property void
15	set_PercentGroupSizes(intgc[]);
16	[VB] Public Property PercentGroupSizes As Integer ()
17	[JScript] public function get PercentGroupSizes(): int[];public function set
18	PercentGroupSizes(int[]);
19	
20	Description
21	Indicates the number of digits in each group to the left of the decimal in
22	percent values.
23	Every element in the one-dimensional array must be an integer from 1
24	through 9. The last element can be 0.
25	PercentNegativePattern

1	ToString
2	
3	[C#] public int PercentNegativePattern {get; set;}
4	[C++] public:property int get_PercentNegativePattern();public:property void
5	set_PercentNegativePattern(int);
6	[VB] Public Property PercentNegativePattern As Integer
7	[JScript] public function get PercentNegativePattern(): int;public function set
8	PercentNegativePattern(int);
9	
10	Description
11	Indicates the format pattern for negative percent values.
12	This property can have one of the values in the following table. The symbol
13	"%" is the System.Globalization.NumberFormatInfo.PercentSymbol, the
14	symbol "-" is the System.Globalization.NumberFormatInfo.NegativeSign, and
15	n is a number.
16	PercentPositivePattern
17	ToString
18	
19	[C#] public int PercentPositivePattern {get; set;}
20	[C++] public:property int get_PercentPositivePattern();public:property void
21	set_PercentPositivePattern(int);
22	[VB] Public Property PercentPositivePattern As Integer
23	[JScript] public function get PercentPositivePattern(): int;public function set
24	PercentPositivePattern(int);

1	
2	Description
3	Indicates the format pattern for positive percent values.
4	This property can have one of the values in the following table. The symbol
5	"%" is the System. Globalization. Number Format Info. Percent Symbol and n is a
6	number.
7	PercentSymbol
8	ToString
9	
10	[C#] public string PercentSymbol {get; set;}
11	[C++] public:property String* get_PercentSymbol();public:property void
12	set_PercentSymbol(String*);
13	[VB] Public Property PercentSymbol As String
14	[JScript] public function get PercentSymbol(): String;public function set
15	PercentSymbol(String);
16	
17	Description
18	Indicates the System.String to use as the percent symbol.
19	PerMilleSymbol
20	ToString
21	
22	[C#] public string PerMilleSymbol {get; set;}
23	[C++] public:property String* get_PerMilleSymbol();public:property void
24	set_PerMilleSymbol(String*);
25	[VB] Public Property PerMilleSymbol As String

1	[JScript] public function get PerMilleSymbol(): String; public function set
2	PerMilleSymbol(String);
3	
4	Description
5	Indicates the System.String to use as the per mille symbol.
6	PositiveInfinitySymbol
7	ToString
8	
9	[C#] public string PositiveInfinitySymbol {get; set;}
10	[C++] public:property String* get_PositiveInfinitySymbol();public:property
11	void set_PositiveInfinitySymbol(String*);
12	[VB] Public Property PositiveInfinitySymbol As String
13	[JScript] public function get PositiveInfinitySymbol(): String;public function set
14	PositiveInfinitySymbol(String);
15	
16	Description
17	Indicates the System.String that represents positive infinity.
18	PositiveSign
19	ToString
20	
21	[C#] public string PositiveSign {get; set;}
22	[C++] public:property String* get_PositiveSign();public:property void
23	set_PositiveSign(String*);
24	[VB] Public Property PositiveSign As String
25	[JScript] public function get PositiveSign(): String;public function set

PositiveSign(String); 2 Description 3 Indicates the System.String that denotes that the associated number is 4 positive. 5 This property is used only for parsing numeric strings, not for formatting. Clone 7 8 [C#] public object Clone(); 9 [C++] public: __sealed Object* Clone(); 10 [VB] NotOverridable Public Function Clone() As Object 11 [JScript] public function Clone(): Object; 12 13 Description 14 $Creates\ a\ shallow\ copy\ of\ the\ {\bf System. Globalization. Number Format Info}$ 15 instance. 16 Return Value: A new System. Globalization. Number Format Info instance copied 17 from the original System. Globalization. Number Format Info instance. 18 The clone is writable even if the original instance is read-only; therefore, 19 the properties of the clone can be modified with user-defined patterns. 20 GetFormat 21 22 [C#] public object GetFormat(Type formatType); 23 [C++] public: __sealed Object* GetFormat(Type* formatType); [VB] NotOverridable Public Function GetFormat(ByVal formatType As Type) As

1	Object
2	[JScript] public function GetFormat(formatType : Type) : Object;
3	
4	Description
5	Gets an object of the specified type that provides a number formatting
6	service.
7	Return Value: The current instance of the
8	System.Globalization.NumberFormatInfo class, if formatType is the same as
9	the type of the current instance; otherwise, null.
10	The Format(String, IFormatProvider) methods supported by the base data
11	types invoke this method when the current instance is passed as the
12	System.IFormatProvider parameter. This method implements
13	System.IFormatProvider.GetFormat(System.Type) . The System.Type of the
14	required formatting service.
15	GetInstance
16	
17	[C#] public static NumberFormatInfo GetInstance(IFormatProvider
18	formatProvider);
19	[C++] public: static NumberFormatInfo* GetInstance(IFormatProvider*
20	formatProvider);
21	[VB] Public Shared Function GetInstance(ByVal formatProvider As
22	IFormatProvider) As NumberFormatInfo
23	[JScript] public static function GetInstance(formatProvider : IFormatProvider) :
24	NumberFormatInfo;
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 $\label{lem:Gets} Gets \ the \ \textbf{System.Globalization.NumberFormatInfo} \ instance \ associated$ with the specified $\ \textbf{System.IFormatProvider}$.

Return Value: The System.Globalization.NumberFormatInfo instance associated with the specified System.IFormatProvider .

This method uses the

System.IFormatProvider.GetFormat(System.Type) method of formatProvider using System.Globalization.NumberFormatInfo as the Type parameter. If formatProvider is null or if System.IFormatProvider.GetFormat(System.Type) returns null, this method returns

System.Globalization.NumberFormatInfo.CurrentInfo . The System.IFormatProvider used to get the System.Globalization.NumberFormatInfo instance.

ReadOnly

[C#] public static NumberFormatInfo ReadOnly(NumberFormatInfo nfi);

[C++] public: static NumberFormatInfo* ReadOnly(NumberFormatInfo* nfi);

[VB] Public Shared Function ReadOnly(ByVal nfi As NumberFormatInfo) As

NumberFormatInfo

[JScript] public static function ReadOnly(nfi : NumberFormatInfo) :

NumberFormatInfo;

Description

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Returns a read-only System. Globalization. Number Format Info wrapper. Return Value: A read-only System. Globalization. Number Format Info wrapper around nfi. This wrapper prevents any modifications to nfi. The ${\bf System. Globalization. Number Format Info}\ {\bf to}\ {\bf wrap.}$ NumberStyles enumeration (System.Globalization) **ToString** Description Determines the styles permitted in numerical string arguments that are passed to the Parse methods of the numeric base type classes. The symbols to use for currency symbol, thousands separator, decimal point indicator, and leading sign are specified by System. Globalization. Number Format Info. **ToString** [C#] public const NumberStyles AllowCurrencySymbol; [C++] public: const NumberStyles AllowCurrencySymbol; [VB] Public Const AllowCurrencySymbol As NumberStyles [JScript] public var AllowCurrencySymbol : NumberStyles; Description

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Description

Indicates that a currency symbol is allowed. Valid currency symbols are determined by the System. Globalization. Number Format Info. Currency Symbol property of System. Globalization. Number Format Info. **ToString** [C#] public const NumberStyles AllowDecimalPoint; [C++] public: const NumberStyles AllowDecimalPoint; [VB] Public Const AllowDecimalPoint As NumberStyles [JScript] public var AllowDecimalPoint : NumberStyles; Description Indicates that a decimal point is allowed. Valid decimal point characters are determined by the $System. Globalization. Number Format Info. Number Decimal Separator \ and \$ System. Globalization. Number Format Info. Currency Decimal Separator $properties \ of \ \textbf{System.Globalization.NumberFormatInfo} \ .$ **ToString** [C#] public const NumberStyles AllowExponent; [C++] public: const NumberStyles AllowExponent; [VB] Public Const AllowExponent As NumberStyles [JScript] public var AllowExponent : NumberStyles;

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Indicates that an exponent is allowed. The format of the number should be $\{e|E\}$ $[\{+|-\}]$ n, where n is a number. **ToString** [C#] public const NumberStyles AllowHexSpecifier; [C++] public: const NumberStyles AllowHexSpecifier; [VB] Public Const AllowHexSpecifier As NumberStyles [JScript] public var AllowHexSpecifier : NumberStyles; Description Indicates that hexadecimal numbers are allowed. **ToString** [C#] public const NumberStyles AllowLeadingSign; [C++] public: const NumberStyles AllowLeadingSign; [VB] Public Const AllowLeadingSign As NumberStyles [JScript] public var AllowLeadingSign: NumberStyles;

Description

Indicates that a leading sign is allowed. Valid leading sign characters are determined by the System.Globalization.NumberFormatInfo.PositiveSign and System.Globalization.NumberFormatInfo.NegativeSign properties of System.Globalization.NumberFormatInfo.

ToString

1 [C#] public const NumberStyles AllowLeadingWhite; 2 [C++] public: const NumberStyles AllowLeadingWhite; 3 [VB] Public Const AllowLeadingWhite As NumberStyles [JScript] public var AllowLeadingWhite: NumberStyles; 5 6 Description 7 Indicates that a leading white-space character is allowed. Valid white-space 8 characters have the Unicode values U+0009, U+000A, U+000B, U+000C, 9 U+000D, and U+0020. 10 **ToString** 11 12 [C#] public const NumberStyles AllowParentheses; 13 [C++] public: const NumberStyles AllowParentheses; 14 [VB] Public Const AllowParentheses As NumberStyles [JScript] public var AllowParentheses: NumberStyles; 16 17 Description 18 Indicates that parentheses are allowed. 19 **ToString** 20 21 [C#] public const NumberStyles AllowThousands; 22 [C++] public: const NumberStyles AllowThousands; 23 [VB] Public Const AllowThousands As NumberStyles 24

[JScript] public var AllowThousands: NumberStyles;

Indicates that group separators are allowed; for instance, separating the hundreds from the thousands. Valid group separator characters are determined by the System.Globalization.NumberFormatInfo.NumberGroupSeparator and System.Globalization.NumberFormatInfo.CurrencyGroupSeparator properties of System.Globalization.NumberFormatInfo and the number of digits in each group is determined by the

System.Globalization.NumberFormatInfo.NumberGroupSizes and System.Globalization.NumberFormatInfo.CurrencyGroupSizes properties of System.Globalization.NumberFormatInfo.

ToString

[C#] public const NumberStyles AllowTrailingSign;

[C++] public: const NumberStyles AllowTrailingSign;

[VB] Public Const AllowTrailingSign As NumberStyles

[JScript] public var AllowTrailingSign : NumberStyles;

Description

Indicates that a trailing sign is allowed. Valid trailing sign characters are determined by the System.Globalization.NumberFormatInfo.PositiveSign and System.Globalization.NumberFormatInfo.NegativeSign properties of System.Globalization.NumberFormatInfo.

ToString

1	
2	[C#] public const NumberStyles AllowTrailingWhite;
3	[C++] public: const NumberStyles AllowTrailingWhite;
4	[VB] Public Const AllowTrailingWhite As NumberStyles
5	[JScript] public var AllowTrailingWhite : NumberStyles;
6	
7	Description
8	Indicates that trailing white-space character is allowed. Valid white-space
9	characters have the Unicode values U+0009, U+000A, U+000B, U+000C,
10	U+000D, and U+0020.
11	ToString
12	
13	[C#] public const NumberStyles Any;
14	[C++] public: const NumberStyles Any;
15	[VB] Public Const Any As NumberStyles
16	[JScript] public var Any: NumberStyles;
17	
18	Description
19	Indicates that all the AllowXXX bit styles are used. This is a composite
20	number style.
21	ToString
22	
23	[C#] public const NumberStyles Currency;
24	[C++] public: const NumberStyles Currency;
25	[VB] Public Const Currency As NumberStyles

1	[JScript] public var Currency: NumberStyles;
2	
3	Description
4	Indicates that all styles except AllowExponent are used. This is a composite
5	number style.
6	ToString
7	
8	[C#] public const NumberStyles Float;
9	[C++] public: const NumberStyles Float;
10	[VB] Public Const Float As NumberStyles
11	[JScript] public var Float : NumberStyles;
12	
13	Description
14	Indicates that the AllowLeadingWhite, AllowTrailingWhite,
15	AllowLeadingSign, AllowDecimalPoint, and AllowExponent styles are used. This
16	is a composite number style.
17	ToString
18	
19	[C#] public const NumberStyles HexNumber;
20	[C++] public: const NumberStyles HexNumber;
21	[VB] Public Const HexNumber As NumberStyles
22	[JScript] public var HexNumber: NumberStyles;
23	
24	Description
25	

1	Indicates that the AllowLeadingWhite, AllowTrailingWhite, and
2	AllowHexSpecifier styles are used. This is a composite number style.
3	ToString
4	
5	[C#] public const NumberStyles Integer;
6	[C++] public: const NumberStyles Integer;
7	[VB] Public Const Integer As NumberStyles
8	[JScript] public var Integer : NumberStyles;
9	
10	Description
11	Indicates that the AllowLeadingWhite, AllowTrailingWhite, and
12	AllowLeadingSign styles are used. This is a composite number style.
13	ToString
14	
15	[C#] public const NumberStyles None;
16	[C++] public: const NumberStyles None;
17	[VB] Public Const None As NumberStyles
18	[JScript] public var None : NumberStyles;
19	,
20	Description
21	Indicates that none of the bit styles are allowed.
22	ToString
23	
24	[C#] public const NumberStyles Number;
25	[C++] public: const NumberStyles Number;

1	[VB] Public Const Number As NumberStyles
2	[JScript] public var Number: NumberStyles;
3	
4	Description
5	Indicates that the AllowLeadingWhite, AllowTrailingWhite,
6	AllowLeadingSign, AllowTrailingSign, AllowDecimalPoint, and AllowThousands
7	styles are used. This is a composite number style.
8	RegionInfo class (System.Globalization)
9	ToString
10	
11	
12	Description
13	Contains information about the country/region.
14	In contrast to System. Globalization. Culture Info,
15	System.Globalization.RegionInfo does not represent preferences of the user and
16	does not depend on the user's language or culture.
17	RegionInfo
18	Example Syntax:
19	ToString
20	
21	[C#] public RegionInfo(int culture);
22	[C++] public: RegionInfo(int culture);
23	[VB] Public Sub New(ByVal culture As Integer)
24	[JScript] public function RegionInfo(culture : int);
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Initializes a new instance of the **System.Globalization.RegionInfo** class based on the country/region associated with the specified culture identifier.

The culture identifier is mapped to the corresponding National Language Support (NLS) locale identifier. A list of culture identifiers is provided in the System.Globalization.CultureInfo class topic. A culture identifier.

RegionInfo

Example Syntax:

ToString

[C#] public RegionInfo(string name);

[C++] public: RegionInfo(String* name);

[VB] Public Sub New(ByVal name As String)

[JScript] public function RegionInfo(name: String); Initializes a new instance of the System.Globalization.RegionInfo class.

Description

Initializes a new instance of the **System.Globalization.RegionInfo** class based on the country/region specified by name.

The **System.Globalization.RegionInfo** name is one of the two-letter codes defined in ISO 3166 for country/region. A **System.String** containing one of the two-letter codes defined in ISO 3166 for country/region.

CurrencySymbol

ToString

[C#] public virtual string CurrencySymbol {get;}
[C++] public:property virtual String* get_CurrencySymbol();
[VB] Overridable Public ReadOnly Property CurrencySymbol As String
[JScript] public function get CurrencySymbol(): String;
Description

Gets the currency symbol associated with the country/region.

For example, the currency symbol for the United States is "\$".

CurrentRegion

ToString

[C#] public static RegionInfo CurrentRegion {get;}
 [C++] public: __property static RegionInfo* get_CurrentRegion();
 [VB] Public Shared ReadOnly Property CurrentRegion As RegionInfo
 [JScript] public static function get CurrentRegion(): RegionInfo;

Description

Gets the **System.Globalization.RegionInfo** instance that represents the country/region used by the current thread.

The value of this property is based on the locale selected through the Regional and Language Options (or Regional Options or Regional Settings) applet in Windows Control Panel. However, that information can change during the life of the <code>System.AppDomain</code>. The <code>System.Globalization.RegionInfo</code> class does not detect changes in the system settings automatically.

DisplayName **ToString** 2 3 [C#] public virtual string DisplayName {get;} 4 [C++] public: __property virtual String* get_DisplayName(); 5 [VB] Overridable Public ReadOnly Property DisplayName As String 6 [JScript] public function get DisplayName(): String; 7 8 Description 9 Gets the full name of the country/region in the localized language of the 10 .NET Framework. 11 For example, if the .NET Framework English version is installed, the 12 United States is "United States". If the .NET Framework Spanish version is 13 installed, regardless of the language that the system is set to display, the 14 country/region name is displayed in Spanish; therefore, the United States is 15 "Estados Unidos". 16 EnglishName 17 **ToString** 18 19 [C#] public virtual string EnglishName {get;} 20 [C++] public: _ property virtual String* get_EnglishName(); [VB] Overridable Public ReadOnly Property EnglishName As String 22 [JScript] public function get EnglishName(): String; 23 24 Description 25

Gets the full name of the country/region in English. For example, the United States is "United States". 2 **IsMetric** 3 **ToString** 5 [C#] public virtual bool IsMetric {get;} 6 [C++] public: property virtual bool get_IsMetric(); 7 [VB] Overridable Public ReadOnly Property IsMetric As Boolean 8 [JScript] public function get IsMetric(): Boolean; 10 Description 11 Gets a value indicating whether the country/region uses the metric system 12 for measurements. 13 ISOCurrencySymbol 14 **ToString** 15 16 [C#] public virtual string ISOCurrencySymbol {get;} 17 [C++] public: __property virtual String* get_ISOCurrencySymbol(); 18 [VB] Overridable Public ReadOnly Property ISOCurrencySymbol As String 19 [JScript] public function get ISOCurrencySymbol(): String; 21 Description 22 Gets the three-character ISO 4217 currency symbol associated with the 23 country/region. 24 25

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A list of the three-character ISO 4217 currency symbols is provided in the System.Globalization.RegionInfo class topic. For example, the ISO 4217 currency symbol for the United States dollar is "USD". Name **ToString** [C#] public virtual string Name {get;} [C++] public: __property virtual String* get_Name(); [VB] Overridable Public ReadOnly Property Name As String [JScript] public function get Name(): String; Description Gets the two-letter code defined in ISO 3166 for the country/region. The System.Globalization.RegionInfo name is one of the two-letter codes defined in ISO 3166 for country/region. For example, the two-letter code for United States is "US". ThreeLetterISORegionName **ToString** [C#] public virtual string ThreeLetterISORegionName {get;} [C++] public: __property virtual String* get_ThreeLetterISORegionName(); [VB] Overridable Public ReadOnly Property ThreeLetterISORegionName As String [JScript] public function get ThreeLetterISORegionName(): String;

1	
2	Description
3	Gets the three-letter code defined in ISO 3166 for the country/region.
4	The System.Globalization.RegionInfo.ThreeLetterISORegionName
5	property contains one of the three-letter codes defined in ISO 3166 for
6	country/region. For example, the three-letter code for United States is "USA".
7	ThreeLetterWindowsRegionName
8	ToString
9	
10	[C#] public virtual string ThreeLetterWindowsRegionName {get;}
11	[C++] public:property virtual String* get_ThreeLetterWindowsRegionName();
12	[VB] Overridable Public ReadOnly Property ThreeLetterWindowsRegionName
13	As String
14	[JScript] public function get ThreeLetterWindowsRegionName(): String;
15	
16	Description
17	Gets the Windows version of the three-letter code for the country/region of
18	this System.Globalization.RegionInfo.
19	For example, the three-letter code for United States is "USA".
20	TwoLetterISORegionName
21	ToString
22	
23	[C#] public virtual string TwoLetterISORegionName {get;}
24	[C++] public:property virtual String* get_TwoLetterISORegionName();
25	[VB] Overridable Public ReadOnly Property TwoLetterISORegionName As

1	String
2	[JScript] public function get TwoLetterISORegionName(): String;
3	
4	Description
5	Gets the two-letter code defined in ISO 3166 for the country/region.
6	The System.Globalization.RegionInfo name is one of the two-letter codes
7	defined in ISO 3166 for country/region. For example, the two-letter code for
8	United States is "US".
9	Equals
10	
11	[C#] public override bool Equals(object value);
12	[C++] public: bool Equals(Object* value);
13	[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean
14	[JScript] public override function Equals(value : Object) : Boolean;
15	
16	Description
17	Determines whether the specified System.Object is the same instance as
18	the current System. Globalization. Region Info instance.
19	Return Value: true if the specified System.Object is the same instance as the
20	current System.Globalization.RegionInfo instance; otherwise, false.
21	This method overrides System.Object.Equals(System.Object). The
22	System.Object to compare with the current System.Globalization.RegionInfo
23	instance.
24	GetHashCode
25	

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1	
2	[C#] public override int GetHashCode();
3	[C++] public: int GetHashCode();
4	[VB] Overrides Public Function GetHashCode() As Integer
5	[JScript] public override function GetHashCode(): int;
6	
7	Description
8	Serves as a hash function for the current System. Globalization. Region Info
9	instance, suitable for use in hashing algorithms and data structures, such as a hash
10	table.
11	Return Value: A hash code for the current System. Globalization. RegionInfo
12	instance.
13	This method overrides System.Object.GetHashCode.
14	ToString
15	
16	[C#] public override string ToString();
17	[C++] public: String* ToString();
18	[VB] Overrides Public Function ToString() As String
19	[JScript] public override function ToString(): String;
20	
21	Description
22	Returns a System.String containing the name of the current
23	System.Globalization.RegionInfo instance, which is one of the three-letter
24	country/region codes defined in ISO 3166.
25	Return Value: A System.String containing the name of the current
	••

System.Globalization.RegionInfo, which is one of the three-letter 1 country/region codes defined in ISO 3166. 2 This method overrides System.Object.ToString. 3 SortKey class (System.Globalization) **ToString** 5 6 7 Description 8 Maps strings to their sort keys. Each character in a string is given several categories of sort weights, 10 including script, alphabetic, case, and diacritic weights. A sort key serves as the 11 repository of these weights for a particular string. For example, a sort key might 12 contain a string of alphabetic weights, followed by a string of case weights, and so 13 on. 14 KeyData 15 **ToString** 16 17 [C#] public virtual byte[] KeyData {get;} 18 [C++] public: __property virtual unsigned char get_KeyData(); 19 [VB] Overridable Public ReadOnly Property KeyData As Byte () 20 [JScript] public function get KeyData(): Byte[]; 21 22 Description 23 Gets the byte array representing the current 24

System.Globalization.SortKey instance.

1	OriginalString
2	ToString
3	
4	[C#] public virtual string OriginalString {get;}
5	[C++] public:property virtual String* get_OriginalString();
6	[VB] Overridable Public ReadOnly Property OriginalString As String
7	[JScript] public function get OriginalString(): String;
8	
9	Description
10	Gets the original string used to create the current
11	System.Globalization.SortKey instance.
12	Compare
13	
14	[C#] public static int Compare(SortKey sortkey1, SortKey sortkey2);
15	[C++] public: static int Compare(SortKey* sortkey1, SortKey* sortkey2);
16	[VB] Public Shared Function Compare(ByVal sortkey1 As SortKey, ByVal
17	sortkey2 As SortKey) As Integer
18	[JScript] public static function Compare(sortkey1 : SortKey, sortkey2 : SortKey) :
19	int;
20	
21	Description
22	Compares two sort keys.
23	Return Value: Value Condition Zero The two sort keys are equal. The first sort
24	key to compare. The second sort key to compare.
25	Equals

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1	
2	[C#] public override bool Equals(object value);
3	[C++] public: bool Equals(Object* value);
4	[VB] Overrides Public Function Equals(ByVal value As Object) As Boolean
5	[JScript] public override function Equals(value : Object) : Boolean;
6	
7	Description
8	Determines whether the specified System.Object is the same instance as
9	the current System.Globalization.SortKey.
10	Return Value: true if the specified System.Object is the same instance as the
11	current System.Globalization.SortKey; otherwise, false.
12	This method overrides System.Object.Equals(System.Object). The
13	System.Object to compare with the current System.Globalization.SortKey.
14	GetHashCode
15	
16	[C#] public override int GetHashCode();
17	[C++] public: int GetHashCode();
18	[VB] Overrides Public Function GetHashCode() As Integer
19	[JScript] public override function GetHashCode(): int;
20	
21	Description
22	Serves as a hash function for the current System.Globalization.SortKey
23	instance, suitable for use in hashing algorithms and data structures, such as a hash
24	table.

1	Return Value: A hash code for the current System.Globalization.SortKey
2	instance.
3	This method overrides System.Object.GetHashCode.
4	ToString
5	
6	[C#] public override string ToString();
7	[C++] public: String* ToString();
8	[VB] Overrides Public Function ToString() As String
9	[JScript] public override function ToString(): String;
10	
11	Description
12	Returns a System.String that represents the current
13	System.Globalization.SortKey instance.
14	Return Value: A System.String that represents the current
15	System.Globalization.SortKey instance.
16	This method overrides System.Object.ToString.
17	StringInfo class (System.Globalization)
18	ToString
19	
20	
21	Description
22	Provides functionality to split a string into text elements and to iterate
23	through those text elements.
24	The .NET Framework defines a text element as a unit of text that is
25	displayed as a single character; that is, a grapheme. A text element can be a base

character, a surrogate pair, or a combining character sequence. The Unicode
Standard defines a surrogate pair as a coded character representation for a single
abstract character that consists of a sequence of two code units, where the first unit
of the pair is a high-surrogate and the second is a low-surrogate. The Unicode
Standard defines a combining character sequence as a combination of a base
character and one or more combining characters. A surrogate pair can represent a
base character or a combining character. For more information on surrogate pairs
and combining character sequences, see The Unicode Standard at
http://www.unicode.org.

StringInfo

Example Syntax:

ToString

[C#] public StringInfo();

[C++] public: StringInfo();

[VB] Public Sub New()

[JScript] public function StringInfo();

GetNextTextElement

[C#] public static string GetNextTextElement(string str);

[C++] public: static String* GetNextTextElement(String* str);

[VB] Public Shared Function GetNextTextElement(ByVal str As String) As String [JScript] public static function GetNextTextElement(str: String): String; Gets the first text element in a specified string.

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Description

Gets the first text element in a specified string.

Return Value: A System.String containing the first text element in str.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org. The **System.String** to get the text element from.

GetNextTextElement

[C#] public static string GetNextTextElement(string str, int index);
[C++] public: static String* GetNextTextElement(String* str, int index);
[VB] Public Shared Function GetNextTextElement(ByVal str As String, ByVal index As Integer) As String
[JScript] public static function GetNextTextElement(str: String, index: int):
String;

Description

Gets the text element at the specified index of the specified string.

Return Value: A System.String containing the text element at index of str.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org. The **System.String** to get the text element from. The index at which the text element starts.

GetTextElementEnumerator

[C#] public static TextElementEnumerator GetTextElementEnumerator(string str);

[C++] public: static TextElementEnumerator*

GetTextElementEnumerator(String* str);

[VB] Public Shared Function GetTextElementEnumerator(ByVal str As String) As

TextElementEnumerator

 $[JScript]\ public\ static\ function\ GetTextElementEnumerator(str:String):$

TextElementEnumerator; Returns an enumerator that can iterate through the text

elements of a System.String.

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Description

Returns an enumerator that can iterate through the text elements of the entire **System.String**.

Return Value: A System.Globalization.TextElementEnumerator for the entire System.String.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org. The **System.String** to iterate through.

GetTextElementEnumerator

[C#] public static TextElementEnumerator GetTextElementEnumerator(string str, int index);

[C++] public: static TextElementEnumerator*

GetTextElementEnumerator(String* str, int index);

[VB] Public Shared Function GetTextElementEnumerator(ByVal str As String, ByVal index As Integer) As TextElementEnumerator

[JScript] public static function GetTextElementEnumerator(str : String, index : int) : TextElementEnumerator;

Description

Returns an enumerator that can iterate through the text elements of the **System.String** starting at the specified index.

Return Value: A System.Globalization.TextElementEnumerator for the System.String starting at the specified index.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org. The System.String to iterate through. The index at which to start iterating.

ParseCombiningCharacters

[C#] public static int[] ParseCombiningCharacters(string str);

[C++] public: static int ParseCombiningCharacters(String* str) __gc[];

[VB] Public Shared Function ParseCombiningCharacters(ByVal str As String) As

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ToString

1	Integer()
2	[JScript] public static function ParseCombiningCharacters(str : String) : int[];
3	
4	Description
5	Returns the indexes of each base character, high-surrogate, or control
6	character within the specified string.
7	Return Value: An array of integers that contains the indexes of each base
8	character, high-surrogate, or control character within the specified string.
9	The Unicode Standard defines a surrogate pair as a coded character
10	representation for a single abstract character that consists of a sequence of two
11	code units, where the first unit of the pair is a high-surrogate and the second is a
12	low-surrogate. A high-surrogate is a Unicode code point in the range U+D800
13	through U+DBFF and a low-surrogate is a Unicode code point in the range
14	U+DC00 through U+DFFF. The System.String to search.
15	TaiwanCalendar class (System.Globalization)
16	ToString
17	
18	
19	Description
20	Represents the Taiwanese calendar.
21	The Taiwanese calendar works exactly like the Gregorian calendar, except
22	that the year and era are different.
23	TaiwanCalendar
24	Example Syntax:

```
[C#] public TaiwanCalendar();
    [C++] public: TaiwanCalendar();
    [VB] Public Sub New()
    [JScript] public function TaiwanCalendar();
6
    Description
7
           Initializes a new instance of the System. Globalization. Taiwan Calendar
8
    class.
9
           Eras
10
           ToString
11
12
    [C#] public override int[] Eras {get;}
13
    [C++] public: property virtual int get Eras();
14
    [VB] Overrides Public ReadOnly Property Eras As Integer ()
15
    [JScript] public function get Eras(): int[];
16
17
    Description
18
           Gets the list of eras in the System. Globalization. Taiwan Calendar.
19
           The System.Globalization.TaiwanCalendar class recognizes only the
20
    current era. This property always returns an array with only one element.
21
           TwoDigitYearMax
22
           ToString
23
24
    [C#] public override int TwoDigitYearMax {get; set;}
```

[C++] public:property virtual int get_TwoDigitYearMax();public:property
virtual void set_TwoDigitYearMax(int);
[VB] Overrides Public Property TwoDigitYearMax As Integer
[JScript] public function get TwoDigitYearMax(): int;public function set
TwoDigitYearMax(int);
Description
Gets or sets the last year of a 100-year range that can be represented by a 2-
digit year.

This property allows a 2-digit year to be properly translated to a 4-digit year. For example, in the Gregorian calendar, if this property is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029.

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

[C++] public: DateTime AddMonths(DateTime time, int months);

[VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime

[JScript] public override function AddMonths(time : DateTime, months : int) : DateTime;

Description

Returns a **System.DateTime** that is the specified number of months away from the specified **System.DateTime** .

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Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime.

The year part of the resulting **System.DateTime** is affected if the resulting month is beyond the last month of the current year. The day part of the resulting **System.DateTime** is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of months to add.

AddYears

[C#] public override DateTime AddYears(DateTime time, int years);

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years

As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) :

DateTime;

Description

Returns a **System.DateTime** that is the specified number of years away from the specified **System.DateTime** .

Return Value: The **System.DateTime** that results from adding the specified number of years to the specified **System.DateTime**.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to

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the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting System.DateTime remains the same as the specified System.DateTime . The System.DateTime instance to add. The number of years to add. GetDayOfMonth [C#] public override int GetDayOfMonth(DateTime time); [C++] public: int GetDayOfMonth(DateTime time); [VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As Integer [JScript] public override function GetDayOfMonth(time : DateTime) : int; Description Gets the day of the month in the specified System.DateTime. Return Value: An integer from 1 to 31 that represents the day of the month in time . The **System.DateTime** instance to read. GetDayOfWeek [C#] public override DayOfWeek GetDayOfWeek(DateTime time); [C++] public: DayOfWeek GetDayOfWeek(DateTime time); [VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As DayOfWeek [JScript] public override function GetDayOfWeek(time : DateTime) : DayOfWeek;

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1	
2	Description
3	Gets the day of the week in the specified System.DateTime.
4	Return Value: A System.DayOfWeek value that represents the day of the week in
5	time .
6	The System.DayOfWeek values are Sunday, Monday, Tuesday,
7	Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to
8	read.
9	GetDayOfYear
10	
11	[C#] public override int GetDayOfYear(DateTime time);
12	[C++] public: int GetDayOfYear(DateTime time);
13	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
14	Integer
15	[JScript] public override function GetDayOfYear(time : DateTime) : int;
16	
17	Description
18	Gets the day of the year in the specified System.DateTime.
19	Return Value: An integer from 1 to 366 that represents the day of the year in time.
20	The System.DateTime instance to read.
21	GetDaysInMonth
22	
23	[C#] public override int GetDaysInMonth(int year, int month, int era);
24	[C++] public: int GetDaysInMonth(int year, int month, int era);
25	[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal
,,	

1	month As Integer, ByVal era As Integer) As Integer
2	[JScript] public override function GetDaysInMonth(year: int, month: int, era:
3	int): int; Gets the number of days in the specified month.
4	
5	Description
6	Gets the number of days in the month specified by the year, month, and
7	era parameters.
8	Return Value: The number of days in the specified month in the specified year in
9	the specified era.
10	For example, this method might return 28 or 29 for February ($month = 2$)
11	depending on whether year is a leap year. An integer that represents the year. An
12	integer that represents the month. An integer that represents the era.
13	GetDaysInYear
14	
15	[C#] public override int GetDaysInYear(int year, int era);
16	[C++] public: int GetDaysInYear(int year, int era);
17	[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal
18	era As Integer) As Integer
19	[JScript] public override function GetDaysInYear(year: int, era: int): int; Gets
20	the number of days in the specified year.
21	
22	Description
23	Gets the number of days in the year specified by the year and era
24	parameters.
25	Return Value: The number of days in the specified year in the specified era.

For example, this method might return 365 or 366, depending on whether 1 year is a leap year. An integer that represents the year. An integer that represents the era. 3 GetEra 5 [C#] public override int GetEra(DateTime time); [C++] public: int GetEra(DateTime time); [VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer 8 [JScript] public override function GetEra(time : DateTime) : int; 9 10 Description 11 Gets the era in the specified System.DateTime. 12 Return Value: An integer that represents the era in time. 13 The System.Globalization.TaiwanCalendar class recognizes only the 14 current era. The **System.DateTime** instance to read. 15 GetMonth 16 17 [C#] public override int GetMonth(DateTime time); 18 [C++] public: int GetMonth(DateTime time); 19 [VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer 20 [JScript] public override function GetMonth(time : DateTime) : int; 21 22 Description 23 24

1	Gets the month in the specified System.DateTime.
2	Return Value: An integer between 1 and 12 that represents the month in time. The
3	System.DateTime instance to read.
4	GetMonthsInYear
5	
6	[C#] public override int GetMonthsInYear(int year, int era);
7	[C++] public: int GetMonthsInYear(int year, int era);
8	[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal
9	era As Integer) As Integer
10	[JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets
11	the number of months in the specified year.
12	
13	Description
14	Gets the number of months in the year specified by the year and era
15	parameters.
16	Return Value: The number of months in the specified year in the specified era. An
17	integer that represents the year. An integer that represents the era.
18	GetYear
19	
20	[C#] public override int GetYear(DateTime time);
21	[C++] public: int GetYear(DateTime time);
22	[VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer
23	[JScript] public override function GetYear(time : DateTime) : int;
24	
25	Description

Gets the year in the specified System.DateTime. Return Value: An integer between 1 and 9999 that represents the year in time. The System.DateTime instance to read. 3 **IsLeapDay** 4 5 [C#] public override bool IsLeapDay(int year, int month, int day, int era); 6 [C++] public: bool IsLeapDay(int year, int month, int day, int era); [VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month 8 As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean 9 [JScript] public override function IsLeapDay(year: int, month: int, day: int, era: 10 int): Boolean; Determines whether the specified day is a leap day. 11 12 Description 13 Determines whether the date specified by the year, month, day, and era 14 parameters is a leap day. 15 Return Value: true if the specified day is a leap day; otherwise, false. 16 Leap years in the Taiwanese calendar correspond to the same leap years in 17 the Gregorian calendar. A common year has 365 days and a leap year has 366 18 days. An integer that represents the year. An integer that represents the month. An 19 integer that represents the day. An integer that represents the era. 20 **IsLeapMonth** 21 22 [C#] public override bool IsLeapMonth(int year, int month, int era); 23 [C++] public: bool IsLeapMonth(int year, int month, int era);

25

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal

1	month As Integer, ByVal era As Integer) As Boolean
2	[JScript] public override function IsLeapMonth(year: int, month: int, era: int):
3	Boolean; Determines whether the specified month is a leap month.
4	
5	Description
6	Determines whether the month specified by the year, month, and era
7	parameters is a leap month.
8	Return Value: This method always returns false, unless overridden by a derived
9	class.
10	Leap years in the Taiwanese calendar correspond to the same leap years in
11	the Gregorian calendar. A common year has 365 days and a leap year has 366
12	days. An integer that represents the year. An integer that represents the month. An
13	integer that represents the era.
14	IsLeapYear
15	
16	[C#] public override bool IsLeapYear(int year, int era);
17	[C++] public: bool IsLeapYear(int year, int era);
18	[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As
19	Integer) As Boolean
20	[JScript] public override function IsLeapYear(year: int, era: int): Boolean;
21	Determines whether the specified year is a leap year.
22	
23	Description
24	
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Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

Leap years in the Taiwanese calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a **System.DateTime** that is set to the specified date.

Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the

1	month. An integer that represents the day. An integer that represents the hour. An
2	integer that represents the minute. An integer that represents the second. An
3	integer that represents the millisecond. An integer that represents the era.
4	ToFourDigitYear
5	
6	[C#] public override int ToFourDigitYear(int year);
7	[C++] public: int ToFourDigitYear(int year);
8	[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As
9	Integer
10	[JScript] public override function ToFourDigitYear(year: int): int;
11	
12	Description
13	Converts the specified two-digit year to a four-digit year by using the
14	System.Globalization.TaiwanCalendar.TwoDigitYearMax property to
15	determine the appropriate century.
16	Return Value: An integer that contains the four-digit representation of year.
17	This method implements
18	System.Globalization.Calendar.ToFourDigitYear(System.Int32) . A two-digit
19	integer that represents the year to convert.
20	TextElementEnumerator class (System.Globalization)
21	ToString
22	
23	
24	Description
25	Enumerates the text elements of a System.String .

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The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org.

Current

ToString

[C#] public object Current {get;}

[C++] public: property Object* get Current();

[VB] Public ReadOnly Property Current As Object

[JScript] public function get Current(): Object;

Description

Gets the current text element in the System.String.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single

abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org.

ElementIndex

ToString

[C#] public int ElementIndex {get;}

[C++] public: property int get ElementIndex();

[VB] Public ReadOnly Property ElementIndex As Integer

[JScript] public function get ElementIndex(): int;

Description

Gets the index of the text element that the enumerator is currently positioned over.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base

character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org.

GetTextElement

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[C#] public string GetTextElement();

[C++] public: String* GetTextElement();

[VB] Public Function GetTextElement() As String

[JScript] public function GetTextElement(): String;

Description

Gets the current text element in the System.String.

Return Value: A System.String instance containing the current text element in the System.String.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs

and combining character sequences, see The Unicode Standard at http://www.unicode.org.

MoveNext

[C#] public bool MoveNext();

[C++] public: _ sealed bool MoveNext();

[VB] NotOverridable Public Function MoveNext() As Boolean

[JScript] public function MoveNext(): Boolean;

Description

Advances the enumerator to the next text element of the **System.String**.

Return Value: true if the enumerator was successfully advanced to the next text element; false if the enumerator has passed the end of the **System.String**.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org.

Reset

[C#] public void Reset();

[C++] public: sealed void Reset();

[VB] NotOverridable Public Sub Reset()

[JScript] public function Reset();

Description

Sets the enumerator to its initial position, which is before the first text element in the **System.String**.

The .NET Framework defines a text element as a unit of text that is displayed as a single character; that is, a grapheme. A text element can be a base character, a surrogate pair, or a combining character sequence. The Unicode Standard defines a surrogate pair as a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. The Unicode Standard defines a combining character sequence as a combination of a base character and one or more combining characters. A surrogate pair can represent a base character or a combining character. For more information on surrogate pairs and combining character sequences, see The Unicode Standard at http://www.unicode.org.

TextInfo class (System.Globalization)

ToString

Description

1	Defines properties and behaviors, such as casing, that are specific to a
2	writing system.
3	A writing system is the collection of scripts and orthographic rules required
4	to represent a language as text.
5	ANSICodePage
6	ToString
7	
8	[C#] public virtual int ANSICodePage {get;}
9	[C++] public:property virtual int get_ANSICodePage();
10	[VB] Overridable Public ReadOnly Property ANSICodePage As Integer
11	[JScript] public function get ANSICodePage(): int;
12	
13	Description
14	Gets the American National Standards Institute (ANSI) code page used by
15	the writing system represented by the System. Globalization. TextInfo instance.
16	EBCDICCodePage
17	ToString
18	
19	[C#] public virtual int EBCDICCodePage {get;}
20	[C++] public:property virtual int get_EBCDICCodePage();
21	[VB] Overridable Public ReadOnly Property EBCDICCodePage As Integer
22	[JScript] public function get EBCDICCodePage(): int;
23	
24	Description
25	

1	Gets the Extended Binary Coded Decimal Interchange Code (EBCDIC)
2	code page used by the writing system represented by the
3	System.Globalization.TextInfo instance.
4	ListSeparator
5	ToString
6	
7	[C#] public virtual string ListSeparator {get;}
8	[C++] public:property virtual String* get_ListSeparator();
9	[VB] Overridable Public ReadOnly Property ListSeparator As String
10	[JScript] public function get ListSeparator(): String;
11	
12	Description
13	Gets the System.String that separates items in a list.
14	The default for the invariant culture is ",".
15	MacCodePage
16	ToString
17	
18	[C#] public virtual int MacCodePage {get;}
19	[C++] public:property virtual int get_MacCodePage();
20	[VB] Overridable Public ReadOnly Property MacCodePage As Integer
21	[JScript] public function get MacCodePage(): int;
22	
23	Description
24	Gets the Macintosh code page used by the writing system represented by
25	the System. Globalization. TextInfo instance.

1	OEMCodePage
2	ToString
3	
4	[C#] public virtual int OEMCodePage {get;}
5	[C++] public:property virtual int get_OEMCodePage();
6	[VB] Overridable Public ReadOnly Property OEMCodePage As Integer
7	[JScript] public function get OEMCodePage(): int;
8	
9	Description
10	Gets the original equipment manufacturer (OEM) code page used by the
11	writing system represented by the System.Globalization.TextInfo instance.
12	Equals
13	
14	[C#] public override bool Equals(object obj);
15	[C++] public: bool Equals(Object* obj);
16	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
17	[JScript] public override function Equals(obj : Object) : Boolean;
18	
19	Description
20	Determines whether the specified System.Object represents the same
21	writing system as the current System.Globalization.TextInfo.
22	Return Value: true if the specified System.Object represents the same writing
23	system as the current System.Globalization.TextInfo; otherwise, false.
24	This method overrides System.Object.Equals(System.Object). The
25	System.Object to compare with the current System.Globalization.TextInfo.

1	GetHashCode
2	
3	[C#] public override int GetHashCode();
4	[C++] public: int GetHashCode();
5	[VB] Overrides Public Function GetHashCode() As Integer
6	[JScript] public override function GetHashCode(): int;
7	
8	Description
9	Serves as a hash function for the current System. Globalization. TextInfo
10	instance, suitable for use in hashing algorithms and data structures, such as a hash
11	table.
12	Return Value: A hash code for the current System. Globalization. TextInfo
13	instance.
14	This method overrides System.Object.GetHashCode.
15	IDeserializationCallback.OnDeserialization
16	
17	[C#] void IDeserializationCallback.OnDeserialization(object sender);
18	[C++] void IDeserializationCallback::OnDeserialization(Object* sender);
19	[VB] Sub OnDeserialization(ByVal sender As Object) Implements
20	IDeserializationCallback.OnDeserialization
21	[JScript] function IDeserializationCallback.OnDeserialization(sender : Object);
22	ToLower
23	
24	[C#] public virtual char ToLower(char c);
25	[C++] public: virtualwchar_t ToLower(wchar_t c);

[VB] Overridable Public Function ToLower(ByVal c As Char) As Char [JScript] public function ToLower(c: Char): Char; Converts the specified character or string to lowercase.

| | Description

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Converts the specified character to lowercase.

Return Value: The specified character converted to lowercase.

Casing semantics depend on the culture in use. If using the invariant culture, the casing semantics are not culture-sensitive. If using a specific culture, the casing semantics are sensitive to that culture. The character to convert to lowercase.

ToLower

[C#] public virtual string ToLower(string str);

[C++] public: virtual String* ToLower(String* str);

[VB] Overridable Public Function ToLower(ByVal str As String) As String

[JScript] public function ToLower(str : String) : String;

Description

Converts the specified string to lowercase.

Return Value: The specified string converted to lowercase.

The returned string might differ in length from the input string. For more information on casing, refer to the Unicode Technical Report #21 "Case Mappings," published by the Unicode Consortium (http://www.unicode.org). The current implementation preserves the length of the string; however, this behavior

1	is not guaranteed and could change in future implementations. The string to
2	convert to lowercase.
3	ToString
4	
5	[C#] public override string ToString();
6	[C++] public: String* ToString();
7	[VB] Overrides Public Function ToString() As String
8	[JScript] public override function ToString(): String;
9	
10	Description
11	Returns a System.String that represents the current
12	System.Globalization.TextInfo instance.
13	Return Value: A System.String that represents the current
14	System.Globalization.TextInfo instance.
15	This method overrides System.Object.ToString.
16	ToTitleCase
17	
18	[C#] public string ToTitleCase(string str);
19	[C++] public: String* ToTitleCase(String* str);
20	[VB] Public Function ToTitleCase(ByVal str As String) As String
21	[JScript] public function ToTitleCase(str : String) : String;
22	
23	Description
24	Converts the specified string to titlecase.
25	Return Value: The specified string converted to titlecase.

Generally, title casing converts the first character of a word to uppercase and converts the rest of the letters to lowercase. Words that are selected for title casing is dependent on the language. The string to convert to titlecase.

ToUpper

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[C#] public virtual char ToUpper(char c);

[C++] public: virtual __wchar_t ToUpper(__wchar_t c);

[VB] Overridable Public Function ToUpper(ByVal c As Char) As Char [JScript] public function ToUpper(c: Char): Char; Converts the specified character or string to uppercase.

Description

Converts the specified character to uppercase.

Return Value: The specified character converted to uppercase.

Casing semantics depend on the culture in use. If using the invariant culture, the casing semantics are not culture-sensitive. If using a specific culture, the casing semantics are sensitive to that culture. The character to convert to uppercase.

ToUpper

[C#] public virtual string ToUpper(string str);

[C++] public: virtual String* ToUpper(String* str);

[VB] Overridable Public Function ToUpper(ByVal str As String) As String

[JScript] public function ToUpper(str : String) : String;

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Converts the specified string to uppercase.

Return Value: The specified string converted to uppercase.

The returned string might differ in length from the input string. For more information on casing, refer to the Unicode Technical Report #21 "Case Mappings," published by the Unicode Consortium (http://www.unicode.org). The current implementation preserves the length of the string; however this behavior might change in future versions of the .NET Framework. The string to convert to uppercase.

ThaiBuddhistCalendar class (System.Globalization)

ToUpper

Description

Represents the Thai Buddhist calendar.

The Thai Buddhist calendar works exactly like the Gregorian calendar, except that the year and era are different.

ToUpper

[C#] public const int ThaiBuddhistEra;

[C++] public: const int ThaiBuddhistEra;

[VB] Public Const ThaiBuddhistEra As Integer

[JScript] public var ThaiBuddhistEra: int;

1	
2	Description
3	Represents the current era.
4	The System.Globalization.ThaiBuddhistCalendar class recognizes only
5	the current era. This field always returns 1.
6	ThaiBuddhistCalendar
7	Example Syntax:
8	ToUpper
9	
10	[C#] public ThaiBuddhistCalendar();
11	[C++] public: ThaiBuddhistCalendar();
12	[VB] Public Sub New()
13	[JScript] public function ThaiBuddhistCalendar();
14	
15	Description
16	Initializes a new instance of the
17	System.Globalization.ThaiBuddhistCalendar class.
18	Eras
19	ToUpper
20	
21	[C#] public override int[] Eras {get;}
22	[C++] public:property virtual int get_Eras();
23	[VB] Overrides Public ReadOnly Property Eras As Integer ()
24	[JScript] public function get Eras(): int[];
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Description

Gets the list of eras in the ${\bf System. Globalization. Thail Buddhist Calendar}$.

The **System.Globalization.ThaiBuddhistCalendar** class recognizes only the current era. This property always returns an array with only one element.

TwoDigitYearMax

ToUpper

[C#] public override int TwoDigitYearMax {get; set;}

[C++] public: __property virtual int get_TwoDigitYearMax();public: __property virtual void set_TwoDigitYearMax(int);

[VB] Overrides Public Property TwoDigitYearMax As Integer

[JScript] public function get TwoDigitYearMax(): int;public function set TwoDigitYearMax(int);

Description

Gets or sets the last year of a 100-year range that can be represented by a 2-digit year.

This property allows a 2-digit year to be properly translated to a 4-digit year. For example, in the Gregorian calendar, if this property is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029.

AddMonths

[C#] public override DateTime AddMonths(DateTime time, int months);

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[C++] public: DateTime AddMonths(DateTime time, int months); [VB] Overrides Public Function AddMonths(ByVal time As DateTime, ByVal months As Integer) As DateTime [JScript] public override function AddMonths(time : DateTime, months : int) : DateTime; Description Returns a System.DateTime that is the specified number of months away from the specified System.DateTime. Return Value: The System.DateTime that results from adding the specified number of months to the specified System.DateTime. The year part of the resulting System.DateTime is affected if the resulting month is beyond the last month of the current year. The day part of the resulting System.DateTime is also affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting System.DateTime remains the same as the specified System.DateTime . The

AddYears

[C#] public override DateTime AddYears(DateTime time, int years);

System.DateTime instance to add. The number of months to add.

[C++] public: DateTime AddYears(DateTime time, int years);

[VB] Overrides Public Function AddYears(ByVal time As DateTime, ByVal years

As Integer) As DateTime

[JScript] public override function AddYears(time : DateTime, years : int) :

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DateTime;

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Description

Returns a $\mathbf{System.DateTime}$ that is the specified number of years away from the specified $\mathbf{System.DateTime}$.

Return Value: The System.DateTime that results from adding the specified number of years to the specified System.DateTime.

The day part of the resulting **System.DateTime** is affected if the resulting day is not a valid day in the resulting month of the resulting year; it is changed to the last valid day in the resulting month of the resulting year. The time-of-day part of the resulting **System.DateTime** remains the same as the specified **System.DateTime**. The **System.DateTime** instance to add. The number of years to add.

GetDayOfMonth

[C#] public override int GetDayOfMonth(DateTime time);

[C++] public: int GetDayOfMonth(DateTime time);

[VB] Overrides Public Function GetDayOfMonth(ByVal time As DateTime) As Integer

[JScript] public override function GetDayOfMonth(time: DateTime): int;

Description

Gets the day of the month in the specified System.DateTime.

Return Value: An integer from 1 to 31 that represents the day of the month in time.

The System.DateTime instance to read.

1	GetDayOfWeek
2	
3	[C#] public override DayOfWeek GetDayOfWeek(DateTime time);
4	[C++] public: DayOfWeek GetDayOfWeek(DateTime time);
5	[VB] Overrides Public Function GetDayOfWeek(ByVal time As DateTime) As
6	DayOfWeek
7	[JScript] public override function GetDayOfWeek(time : DateTime) :
8	DayOfWeek;
9	
10	Description
11	Gets the day of the week in the specified System.DateTime.
12	Return Value: A System.DayOfWeek value that represents the day of the week in
13	time .
14	The System.DayOfWeek values are Sunday, Monday, Tuesday,
15	Wednesday, Thursday, Friday, and Saturday. The System.DateTime instance to
16	read.
17	GetDayOfYear
18	
19	[C#] public override int GetDayOfYear(DateTime time);
20	[C++] public: int GetDayOfYear(DateTime time);
21	[VB] Overrides Public Function GetDayOfYear(ByVal time As DateTime) As
22	Integer
23	[JScript] public override function GetDayOfYear(time : DateTime) : int;

Description

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Gets the day of the year in the specified **System.DateTime**.

Return Value: An integer from 1 to 366 that represents the day of the year in time.

GetDaysInMonth

The **System.DateTime** instance to read.

[C#] public override int GetDaysInMonth(int year, int month, int era);

[C++] public: int GetDaysInMonth(int year, int month, int era);

[VB] Overrides Public Function GetDaysInMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Integer

[JScript] public override function GetDaysInMonth(year: int, month: int, era: int): int; Gets the number of days in the specified month.

Description

Gets the number of days in the month specified by the *year*, *month*, and *era* parameters.

Return Value: The number of days in the specified month in the specified year in the specified era.

For example, this method might return 28 or 29 for February (month = 2), depending on whether year is a leap year. An integer that represents the year. An integer that represents the month. An integer that represents the era.

GetDaysInYear

[C#] public override int GetDaysInYear(int year, int era);

[C++] public: int GetDaysInYear(int year, int era);

[VB] Overrides Public Function GetDaysInYear(ByVal year As Integer, ByVal

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era As Integer) As Integer [JScript] public override function GetDaysInYear(year: int, era: int): int; Gets 2 the number of days in the specified year. 3 4 Description 5 Gets the number of days in the year specified by the year and era 6 parameters. 7 Return Value: The number of days in the specified year in the specified era. 8 For example, this method might return 365 or 366, depending on whether 9 year is a leap year. An integer that represents the year. An integer that represents the era. 11 GetEra 12 13 14

[C#] public override int GetEra(DateTime time);

[C++] public: int GetEra(DateTime time);

[VB] Overrides Public Function GetEra(ByVal time As DateTime) As Integer [JScript] public override function GetEra(time : DateTime) : int;

Description

Gets the era in the specified System.DateTime.

Return Value: An integer that represents the era in time.

The System.Globalization.ThaiBuddhistCalendar class recognizes only the current era. The **System.DateTime** instance to read.

GetMonth

GetYear

1	
2	[C#] public override int GetMonth(DateTime time);
3	[C++] public: int GetMonth(DateTime time);
4	[VB] Overrides Public Function GetMonth(ByVal time As DateTime) As Integer
5	[JScript] public override function GetMonth(time : DateTime) : int;
6	
7	Description
8	Gets the month in the specified System.DateTime.
9	Return Value: An integer between 1 and 12 that represents the month in time. The
10	System.DateTime instance to read.
11	GetMonthsInYear
12	
13	[C#] public override int GetMonthsInYear(int year, int era);
14	[C++] public: int GetMonthsInYear(int year, int era);
15	[VB] Overrides Public Function GetMonthsInYear(ByVal year As Integer, ByVal
16	era As Integer) As Integer
17	[JScript] public override function GetMonthsInYear(year: int, era: int): int; Gets
18	the number of months in the specified year.
19	
20	Description
21	Gets the number of months in the year specified by the year and era
22	parameters.
23	Return Value: The number of months in the specified year in the specified era. An
24	integer that represents the year. An integer that represents the era.

[C#] public override int GetYear(DateTime time);
[C++] public: int GetYear(DateTime time);
[VB] Overrides Public Function GetYear(ByVal time As DateTime) As Integer
[JScript] public override function GetYear(time : DateTime) : int;
Description
Gets the year in the specified System.DateTime.
Return Value: An integer between 1 and 9999 that represents the year in time. The
System.DateTime instance to read.
IsLeapDay
[C#] public override bool IsLeapDay(int year, int month, int day, int era);
[C++] public: bool IsLeapDay(int year, int month, int day, int era);
[VB] Overrides Public Function IsLeapDay(ByVal year As Integer, ByVal month
As Integer, ByVal day As Integer, ByVal era As Integer) As Boolean
[JScript] public override function IsLeapDay(year: int, month: int, day: int, era:
int): Boolean; Determines whether the specified day is a leap day.
Description
Determines whether the date specified by the year, month, day, and era
parameters is a leap day.
Return Value: true if the specified day is a leap day; otherwise, false.
Leap years in the Thai Buddhist calendar correspond to the same leap years
in the Gregorian calendar. A common year has 365 days and a leap year has 366

days. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the era.

IsLeapMonth

[C#] public override bool IsLeapMonth(int year, int month, int era);

[C++] public: bool IsLeapMonth(int year, int month, int era);

[VB] Overrides Public Function IsLeapMonth(ByVal year As Integer, ByVal month As Integer, ByVal era As Integer) As Boolean

[JScript] public override function IsLeapMonth(year: int, month: int, era: int): Boolean; Determines whether the specified month is a leap month.

Description

Determines whether the month specified by the *year*, *month*, and *era* parameters is a leap month.

Return Value: This method always returns false, unless overridden by a derived class.

Leap years in the Thai Buddhist calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the month. An integer that represents the era.

IsLeapYear

[C#] public override bool IsLeapYear(int year, int era);

[C++] public: bool IsLeapYear(int year, int era);

[VB] Overrides Public Function IsLeapYear(ByVal year As Integer, ByVal era As

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Integer) As Boolean

[JScript] public override function IsLeapYear(year: int, era: int): Boolean;

Determines whether the specified year is a leap year.

Description

Determines whether the year specified by the *year* and *era* parameters is a leap year.

Return Value: true if the specified year is a leap year; otherwise, false.

Leap years in the Thai Buddhist calendar correspond to the same leap years in the Gregorian calendar. A common year has 365 days and a leap year has 366 days. An integer that represents the year. An integer that represents the era.

ToDateTime

[C#] public override DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[C++] public: DateTime ToDateTime(int year, int month, int day, int hour, int minute, int second, int millisecond, int era);

[VB] Overrides Public Function ToDateTime(ByVal year As Integer, ByVal month As Integer, ByVal day As Integer, ByVal hour As Integer, ByVal minute As Integer, ByVal second As Integer, ByVal millisecond As Integer, ByVal era As Integer) As DateTime

[JScript] public override function ToDateTime(year: int, month: int, day: int, hour: int, minute: int, second: int, millisecond: int, era: int): DateTime; Returns a **System.DateTime** that is set to the specified date.

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Description

Returns a **System.DateTime** that is set to the specified date and time in the specified era.

Return Value: The System.DateTime instance set to the specified date and time in the current era. An integer that represents the year. An integer that represents the month. An integer that represents the day. An integer that represents the hour. An integer that represents the minute. An integer that represents the second. An integer that represents the millisecond. An integer that represents the era.

ToFourDigitYear

[C#] public override int ToFourDigitYear(int year);

[C++] public: int ToFourDigitYear(int year);

[VB] Overrides Public Function ToFourDigitYear(ByVal year As Integer) As Integer

[JScript] public override function ToFourDigitYear(year: int): int;

Description

Converts the specified two-digit year to a four-digit year by using the **System.Globalization.ThaiBuddhistCalendar.TwoDigitYearMax** property to determine the appropriate century.

Return Value: An integer that contains the four-digit representation of year.

System.Globalization.ThaiBuddhistCalendar.TwoDigitYearMax is the last year in the 100-year range that can be represented by a two-digit year. The century is determined by finding the sole occurrence of the two-digit year within

that 100-year range. For example, if

System.Globalization.ThaiBuddhistCalendar.TwoDigitYearMax is set to 2029, the 100-year range is from 1930 to 2029; therefore, a 2-digit value of 30 is interpreted as 1930, while a 2-digit value of 29 is interpreted as 2029. A two-digit integer that represents the year to convert.

UnicodeCategory enumeration (System.Globalization)
ToString

Description

Defines the Unicode category of a character.

The Unicode Standard defines the following: A surrogate pair is a coded character representation for a single abstract character that consists of a sequence of two code units, where the first unit of the pair is a high-surrogate and the second is a low-surrogate. A high-surrogate is a Unicode code point in the range U+D800 through U+DBFF and a low-surrogate is a Unicode code point in the range U+DC00 through U+DFFF.

ToString

[C#] public const UnicodeCategory ClosePunctuation;

[C++] public: const UnicodeCategory ClosePunctuation;

[VB] Public Const ClosePunctuation As UnicodeCategory

[JScript] public var ClosePunctuation : UnicodeCategory;

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Indicates that the character is the closing character of one of the paired punctuation marks, such as parentheses, square brackets, and braces. The value is 21. **ToString**

[C#] public const UnicodeCategory ConnectorPunctuation;

[C++] public: const UnicodeCategory ConnectorPunctuation;

[VB] Public Const ConnectorPunctuation As UnicodeCategory

[JScript] public var ConnectorPunctuation : UnicodeCategory;

Description

Indicates that the character is a connector punctuation, which connects two characters. The value is 18.

ToString

[C#] public const UnicodeCategory Control;

[C++] public: const UnicodeCategory Control;

[VB] Public Const Control As UnicodeCategory

[JScript] public var Control: UnicodeCategory;

Description

Indicates that the character is a control code, whose Unicode value is U+007F or in the range U+0000 through U+001F or U+0080 through U+009F. The value is 14.

ToString

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2	[C#] public const UnicodeCategory CurrencySymbol;
3	[C++] public: const UnicodeCategory CurrencySymbol;
4	[VB] Public Const CurrencySymbol As UnicodeCategory
5	[JScript] public var CurrencySymbol : UnicodeCategory;
6	
7	Description
8	Indicates that the character is a currency symbol. The value is 26.
9	ToString
10	
11	[C#] public const UnicodeCategory DashPunctuation;
12	[C++] public: const UnicodeCategory DashPunctuation;
13	[VB] Public Const DashPunctuation As UnicodeCategory
14	[JScript] public var DashPunctuation : UnicodeCategory;
15	
16	Description
17	Indicates that the character is a dash or a hyphen. The value is 19
18	ToString
19	
20	[C#] public const UnicodeCategory DecimalDigitNumber;
21	[C++] public: const UnicodeCategory DecimalDigitNumber;
22	[VB] Public Const DecimalDigitNumber As UnicodeCategory
23	[JScript] public var DecimalDigitNumber : UnicodeCategory;
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25	Description

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ToString

Indicates that the character is a decimal digit; that is, in the range 0 through 9. The value is 8. **ToString** [C#] public const UnicodeCategory EnclosingMark; [C++] public: const UnicodeCategory EnclosingMark; [VB] Public Const EnclosingMark As UnicodeCategory [JScript] public var EnclosingMark: UnicodeCategory; Description Indicates that the character is an enclosing mark, which is a nonspacing combining character that surrounds all previous characters up to and including a base character. The value is 7. **ToString** [C#] public const UnicodeCategory FinalQuotePunctuation; [C++] public: const UnicodeCategory FinalQuotePunctuation; [VB] Public Const FinalQuotePunctuation As UnicodeCategory [JScript] public var FinalQuotePunctuation: UnicodeCategory; Description Indicates that the character is a closing or final quotation mark. The value is 23.

1 [C#] public const UnicodeCategory Format; 2 [C++] public: const UnicodeCategory Format; 3 [VB] Public Const Format As UnicodeCategory [JScript] public var Format : UnicodeCategory; 5 6 Description 7 Indicates that the character is a format character, which is not normally 8 rendered but affects the layout of text or the operation of text processes. The value is 15. 10 **ToString** 11 12 [C#] public const UnicodeCategory InitialQuotePunctuation; 13 [C++] public: const UnicodeCategory InitialQuotePunctuation; 14 [VB] Public Const InitialQuotePunctuation As UnicodeCategory 15 [JScript] public var InitialQuotePunctuation: UnicodeCategory; 16 17 Description 18 Indicates that the character is an opening or initial quotation mark. The 19 value is 22. 20 **ToString** 21 22 [C#] public const UnicodeCategory LetterNumber; 23 [C++] public: const UnicodeCategory LetterNumber; 24

[VB] Public Const LetterNumber As UnicodeCategory

[JScript] public var LetterNumber : UnicodeCategory; 2 Description 3 Indicates that the character is a number represented by a letter, instead of a 4 decimal digit; for example, the Roman numeral for five, which is 'V'. The value is 5 9. 6 **ToString** 7 8 [C#] public const UnicodeCategory LineSeparator; 9 [C++] public: const UnicodeCategory LineSeparator; 10 [VB] Public Const LineSeparator As UnicodeCategory 11 [JScript] public var LineSeparator : UnicodeCategory; 12 13 Description 14 Indicates that the character is used to separate lines of text. The value is 12. 15 **ToString** 16 17 [C#] public const UnicodeCategory LowercaseLetter; 18 [C++] public: const UnicodeCategory LowercaseLetter; [VB] Public Const LowercaseLetter As UnicodeCategory 20 [JScript] public var LowercaseLetter : UnicodeCategory; 21 22 Description 23 Indicates that the character is a lowercase letter. The value is 1. 24 **ToString** 25

1 [C#] public const UnicodeCategory MathSymbol; 2 [C++] public: const UnicodeCategory MathSymbol; 3 [VB] Public Const MathSymbol As UnicodeCategory [JScript] public var MathSymbol : UnicodeCategory; 5 6 Description 7 Indicates that the character is a mathematical symbol, such as '+' or '= '. The 8 value is 25. 9 **ToString** 10 11 [C#] public const UnicodeCategory ModifierLetter; 12 [C++] public: const UnicodeCategory ModifierLetter; 13 [VB] Public Const ModifierLetter As UnicodeCategory 14 [JScript] public var ModifierLetter: UnicodeCategory; 16 Description 17 Indicates that the character is a modifier letter, which is free-standing 18 spacing character that indicates modifications of a preceding letter. The value is 3. 19 **ToString** 20 21 [C#] public const UnicodeCategory ModifierSymbol; 22 [C++] public: const UnicodeCategory ModifierSymbol; 23 [VB] Public Const ModifierSymbol As UnicodeCategory 24 [JScript] public var ModifierSymbol: UnicodeCategory;

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Indicates that the character is a modifier symbol, which indicates modifications of surrounding characters; for example, the fraction slash indicates that the number to the left is the numerator and the number to the right is the denominator. The value is 27.

ToString

[C#] public const UnicodeCategory NonSpacingMark;

[C++] public: const UnicodeCategory NonSpacingMark;

[VB] Public Const NonSpacingMark As UnicodeCategory

[JScript] public var NonSpacingMark: UnicodeCategory;

Description

Indicates that the character is a nonspacing character, which indicates modifications of a base character. The value is 5.

ToString

[C#] public const UnicodeCategory OpenPunctuation;

[C++] public: const UnicodeCategory OpenPunctuation;

[VB] Public Const OpenPunctuation As UnicodeCategory

[JScript] public var OpenPunctuation : UnicodeCategory;

Description

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Indicates that the character is the opening character of one of the paired punctuation marks, such as parentheses, square brackets, and braces. The value is 20. **ToString** [C#] public const UnicodeCategory OtherLetter; [C++] public: const UnicodeCategory OtherLetter; [VB] Public Const OtherLetter As UnicodeCategory [JScript] public var OtherLetter: UnicodeCategory; Description Indicates that the character is a letter that is not an uppercase letter, a lowercase letter, a titlecase letter, or a modifier letter. The value is 4. **ToString** [C#] public const UnicodeCategory OtherNotAssigned; [C++] public: const UnicodeCategory OtherNotAssigned; [VB] Public Const OtherNotAssigned As UnicodeCategory [JScript] public var OtherNotAssigned : UnicodeCategory; Description Indicates that the character is not assigned to any Unicode category. The value is 29.

ToString

[C#] public const UnicodeCategory OtherNumber;[C++] public: const UnicodeCategory OtherNumber;[VB] Public Const OtherNumber As UnicodeCategory[JScript] public var OtherNumber: UnicodeCategory;

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Indicates that the character is a number that is neither a decimal digit nor a letter number; for example, the fraction 1/2. The value is 10.

ToString

[C#] public const UnicodeCategory OtherPunctuation;

[C++] public: const UnicodeCategory OtherPunctuation;

[VB] Public Const OtherPunctuation As UnicodeCategory

[JScript] public var OtherPunctuation : UnicodeCategory;

Description

Indicates that the character is a punctuation that is not a connector punctuation, a dash punctuation, an open punctuation, a close punctuation, an initial quote punctuation, or a final quote punctuation. The value is 24.

ToString

[C#] public const UnicodeCategory OtherSymbol;

[C++] public: const UnicodeCategory OtherSymbol;

[VB] Public Const OtherSymbol As UnicodeCategory

[JScript] public var OtherSymbol : UnicodeCategory; 2 Description 3 Indicates that the character is a symbol that is not a mathematical symbol, a 4 currency symbol or a modifier symbol. The value is 28. 5 **ToString** 6 7 [C#] public const UnicodeCategory ParagraphSeparator; 8 [C++] public: const UnicodeCategory ParagraphSeparator; 9 [VB] Public Const ParagraphSeparator As UnicodeCategory [JScript] public var ParagraphSeparator: UnicodeCategory; 11 12 Description 13 Indicates that the character is used to separate paragraphs. The value is 13. 14 **ToString** 15 16 [C#] public const UnicodeCategory PrivateUse; 17 [C++] public: const UnicodeCategory PrivateUse; 18 [VB] Public Const PrivateUse As UnicodeCategory 19 [JScript] public var PrivateUse: UnicodeCategory; 20 21 Description 22 Indicates that the character is a private-use character, whose Unicode value 23 is in the range U+E000 through U+F8FF. The value is 17. 24 **ToString** 25

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[C#] public const UnicodeCategory SpaceSeparator;
[C++] public: const UnicodeCategory SpaceSeparator;
[VB] Public Const SpaceSeparator As UnicodeCategory
[JScript] public var SpaceSeparator : UnicodeCategory;
Description
Indicates that the character is a space character, which has no glyph but is
not a control or format character. The value is 11.
ToString
[C#] public const UnicodeCategory SpacingCombiningMark;
[C++] public: const UnicodeCategory SpacingCombiningMark;
[VB] Public Const SpacingCombiningMark As UnicodeCategory
[JScript] public var SpacingCombiningMark : UnicodeCategory;
Description
Indicates that the character is a spacing character, which indicates
modifications of a base character and affects the width of the glyph for that base
character. The value is 6.
ToString
[C#] public const UnicodeCategory Surrogate;
[C++] public: const UnicodeCategory Surrogate:

[VB] Public Const Surrogate As UnicodeCategory

[JScript] public var Surrogate: UnicodeCategory;

Description

Indicates that the character is a high-surrogate or a low-surrogate. Surrogate code values are in the range U+D800 through U+DFFF. The value is 16.

ToString

[C#] public const UnicodeCategory TitlecaseLetter;
[C++] public: const UnicodeCategory TitlecaseLetter;
[VB] Public Const TitlecaseLetter As UnicodeCategory
[JScript] public var TitlecaseLetter: UnicodeCategory;

Description

Indicates that the character is a titlecase letter. The value is 2.

ToString

[C#] public const UnicodeCategory UppercaseLetter;

[C++] public: const UnicodeCategory UppercaseLetter;

[VB] Publ

SYSTEM.RESOURCES NAMESPACE

Creating resources can help developers develop robust, culture-aware programs without having to recompile an application because the resources have changed. Resources are an application-building feature that allows developers to place culture-specific data inside satellite data files (called resource files), rather

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than directly in a main application. The main assembly does not strong bind to these satellite data files that give developers the flexibility to deploy them in different phases. When building an application, the developer can identify aspects that are culture-specific such as user visible strings, graphics etc., and put these in a different resources file for each culture where the application may be used. At run time, the appropriate set of resources will be loaded, based on the user's culture settings. The specific setting used is the **CurrentUICulture** for the main thread of execution, which the user can set programmatically.

The ResourceManager class provides the user with the ability to access and control resources stored in the main assembly or in resource satellite assemblies. Use the ResourceManager.GetObject and ResourceManager.GetString methods to retrieve culture-specific objects and strings, as illustrated in the following example.

```
class Class1
{
    //Creates a resource manger bound to the localizable
    //resource file associated with this assembly.
    static ResourceManager rm = new ResourceManager(
    "strings", Assembly.GetExecutingAssembly());

    static void Main(string[] args)
    {
        //Pulls the string with the key "Hello" out of the
        //resource file that is the best match for the current
        //culture.
        Console.WriteLine (rm.GetString ("Hello"));
    }
}
```

SYSTEM.NET NAMESPACE

The System.Net namespace provides a simple programming interface to many of the protocols found on the network today. The WebRequest and WebResponse classes form the basis of "pluggable protocols," an implementation

of network services that enables developers to develop applications that use Internet resources without worrying about the specific details of the protocol used.

The System.Net.Sockets namespace provides a managed implementation of the Windows Sockets interface for developers that need to tightly control access to the network. Developers familiar with the Winsock API can readily develop applications using the Socket class.

The TCPClient, TCPListener, and UDPClient classes encapsulate the details of creating TCP and UDP connections to the Internet.

The following is a more detailed description of the System.Net namespace, identifying various classes, interfaces, enumerations, and so forth contained in the System.Net and System.Net.Sockets namespaces.

System.Net

The namespace provides a simple programming interface to many of the protocols found on the network today. The and classes form the basis of "pluggable protocols," an implementation of network services that enables you to develop applications that use Internet resources without worrying about the specific details of the protocol used.

Description

The **System.Net** namespace provides a simple programming interface to many of the protocols found on the network today. The **System.Net.WebRequest** and **System.Net.WebResponse** classes form the basis of "pluggable protocols," an implementation of network services that enables you to develop applications that use Internet resources without worrying about the specific details of the protocol used.

AuthenticationManager class (System.Net)

Description

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Manages the authentication modules called during the client authentication process.

System.Net.AuthenticationManager is a static class that manages the authentication modules that an application uses. When a request is made to protected resources, the System.Net.AuthenticationManager calls the System.Net.AuthenticationManager.Authenticate(System.String,System.Net.WebRequest,System.Net.ICredentials) method to get an System.Net.Authorization instance to use in subsequent requests.

Properties:

RegisteredModules

[C#] public static IEnumerator RegisteredModules {get;}

[C++] public: __property static IEnumerator* get_RegisteredModules();

[VB] Public Shared ReadOnly Property RegisteredModules As IEnumerator

[JScript] public static function get RegisteredModules(): IEnumerator;

Description

Gets a list of authentication modules that are registered with the authentication manager.

The System.Net.AuthenticationManager.RegisteredModules property provides an System.Collections.IEnumerator instance that enables the list of

1

registered authentication modules to be read. The

System.Net.AuthenticationManager.Register(System.Net.IAuthenticationModule) method adds modules to the list, and the

System.Net.AuthenticationManager.Unregister(System.Net.IAuthentication Module) method removes modules from it.

Methods:

Authenticate

[C#] public static Authorization Authenticate(string challenge, WebRequest request, ICredentials credentials);

[C++] public: static Authorization* Authenticate(String* challenge, WebRequest* request, ICredentials* credentials);

[VB] Public Shared Function Authenticate(ByVal challenge As String, ByVal request As WebRequest, ByVal credentials As ICredentials) As Authorization [JScript] public static function Authenticate(challenge: String, request:

WebRequest, credentials: ICredentials): Authorization;

Description

Calls each registered authentication module to find the first module that can respond to the authentication request.

Return Value: An instance of the **System.Net.Authorization** class containing the result of the authorization attempt. If there is no authentication module to respond to the challenge, this method returns **null**.

The

System. Net. Authentication Manager. Authenticate (System. String, System. Net. Authentication Manager. Authenticate (System. String, System. Net. Authenticate (System. System. System. Net. Authenticate (System. System. System. Net. Authenticate (System. System. System. System. Net. Authenticate (System. System. Syst

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WebRequest, System. Net. I Credentials) method calls the System. Net. I Authentication Module. Authenticate (System. String, System. Net.WebRequest, System. Net. I Credentials) method on each registered authentication module until one of the module responds with an System.Net.Authorization instance. The challenge returned by the Internet resource. The System.Net.WebRequest that initiated the authentication challenge. The System.Net.ICredentials associated with this request. PreAuthenticate 8 9 [C#] public static Authorization PreAuthenticate(WebRequest request, 10 ICredentials credentials);

[C++] public: static Authorization* PreAuthenticate(WebRequest* request, ICredentials* credentials);

[VB] Public Shared Function PreAuthenticate(ByVal request As WebRequest, ByVal credentials As ICredentials) As Authorization

[JScript] public static function PreAuthenticate(request : WebRequest, credentials : ICredentials) : Authorization;

Description

Preauthenticates a request.

Return Value: An instance of the System. Net. Authorization class if the request can be preauthenticated; otherwise, null . If credentials is null , this method returns null.

If the authentication module can preauthenticate the request, the PreAuthenticate method returns an Authentication instance and sends the

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authorization informaiton to the server preemptively instead of waiting for the resource to issue a challenge. This behavior is outlined in section 3.3 of RFC 2617 (HTTP Authentication: Basic and Digest Access Authentication). Authentication modules that support preauthentication allow clients to improve server efficiency by avoiding extra round trips caused by authentication challenges. A System.Net.WebRequest to an Internet resource. The System.Net.ICredentials associated with the request. Register [C#] public static void Register(IAuthenticationModule authenticationModule); [C++] public: static void Register(IAuthenticationModule* authenticationModule); [VB] Public Shared Sub Register(ByVal authenticationModule As IAuthenticationModule) [JScript] public static function Register(authenticationModule: IAuthenticationModule); Description

Registers an authentication module with the authentication manager.

The

System.Net.AuthenticationManager.Register(System.Net.IAuthenticationModule) method adds authentication modules to the end of the list of modules called by the

System. Net. Authentication Manager. Authenticate (System. String, System. Net. Authentication Manager. Authenticate (System. String, System. Net. Authenticate (System. System. System. Net. Authenticate (System. System. System

WebRequest, System. Net. I Credentials) method. Authentication modules are

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8	[VB]
9	IAutl
10	[JScr
11	IAutl
12	regis
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14	Desc
15	
16	modi
17	
18	Syste
19	Mod
20	auth
21	Syst
22	Web
23	adde
24	Syst

called in the order in which they were added to the list. The

System.Net.IAuthenticationModule to register with the authentication manager.

Unregister

[C#] public static void Unregister(IAuthenticationModule authenticationModule);

[C++] public: static void Unregister(IAuthenticationModule*

authenticationModule);

[VB] Public Shared Sub Unregister(ByVal authenticationModule As

IAuthenticationModule)

[JScript] public static function Unregister(authenticationModule:

IAuthenticationModule); Removes authentication modules from the list of registered modules.

Description

Removes the specified authentication module from the list of registered modules.

The

System.Net.AuthenticationManager.Unregister(System.Net.IAuthentication

Module) method removes the specified authentication module from the list of authentication modules called by the

System. Net. Authentication Manager. Authenticate (System. String, System. Net. Authenticate (System. System. Net. Authenticate (System. String, System. Net. Authenticate (System. System. System. Net. Authenticate (System. System. Sys

WebRequest, System. Net. I Credentials) method. The module must have been added to the list using the

System. Net. Authentication Manager. Register (System. Net. I Authentication Monthly Monthly

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dule) method before it can be removed from the list. The IAuthentication module to remove.

Unregister

[C#] public static void Unregister(string authenticationScheme);

[C++] public: static void Unregister(String* authenticationScheme);

[VB] Public Shared Sub Unregister(ByVal authenticationScheme As String)

[JScript] public static function Unregister(authenticationScheme : String);

Description

Removes authentication modules with the specified authentication scheme from the list of registered modules.

The

System.Net.AuthenticationManager.Unregister(System.Net.IAuthentication Module) method removes the authentication module with the specified authentication scheme from the list of authentication modules called by the System.Net.AuthenticationManager.Authenticate(System.String,System.Net. WebRequest,System.Net.ICredentials) method. The module must have been added to the list using the

System.Net.AuthenticationManager.Register(System.Net.IAuthenticationModule) method before it can be removed from the list. The authentication scheme of the module to remove.

Authorization class (System.Net)

Unregister

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Description

Contains an authentication message for an Internet server.

The System.Net.AuthenticationManager returns an instance of the System.Net.Authorization class containing the authentication message that is sent to the Internet server to indicate that the client (such as System.Net.WebRequest or one of its descendants) is authorized to access the server.

Constructors:

Authorization

Example Syntax:

Unregister

[C#] public Authorization(string token);

[C++] public: Authorization(String* token);

[VB] Public Sub New(ByVal token As String)

[JScript] public function Authorization(token : String); Creates a new instance of the System.Net.Authorization class.

Description

Creates a new instance of the System.Net.Authorization class with the specified authorization message.

The System.Net.Authorization instance is created with the System.Net.Authorization.Message property set to token and the

1	System.Net.Authorization.Complete property set to true . The encrypted
2	authorization message expected by the server.
3	Authorization
4	Example Syntax:
5	Unregister
6	
7	[C#] public Authorization(string token, bool finished);
8	[C++] public: Authorization(String* token, bool finished);
9	[VB] Public Sub New(ByVal token As String, ByVal finished As Boolean)
10	[JScript] public function Authorization(token : String, finished : Boolean);
11	
12	Description
13	Creates a new instance of the System.Net.Authorization class with the
14	specified authorization message and completion status.
15	The System.Net.Authorization instance is created with the
16	System.Net.Authorization.Message property set to token and the
17	System.Net.Authorization.Complete property set to finished. The encrypted
18	authorization message expected by the server. The completion status of the
19	authorization attempt.
20	Authorization
21	Example Syntax:
22	Unregister
23	
24	[C#] public Authorization(string token, bool finished, string connectionGroupId)
25	[C++] public: Authorization(String* token, bool finished, String*

connectionGroupId);

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[VB] Public Sub New(ByVal token As String, ByVal finished As Boolean, ByVal connectionGroupId As String)

[JScript] public function Authorization(token : String, finished : Boolean, connectionGroupId : String);

Description

Creates a new instance of the **System.Net.Authorization** class with the specified authorization message, completion status, and connection group identifier. The encrypted authorization message expected by the server. The completion status of the authorization attempt. A unique identifier that can be used to create private Client-Server connections, that would only be bound to this authentication scheme.

Complete

Unregister

[C#] public bool Complete {get;}

[C++] public: property bool get Complete();

[VB] Public ReadOnly Property Complete As Boolean

[JScript] public function get Complete(): Boolean;

Description

Gets the completion status of the authorization.

The **System.Net.Authorization.Complete** property is set to **true** when the authentication process between the client and the server is finished. Some

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authentication modules, such as the Kerberos module, use multiple round trips between the client and server to complete the authentication process. To keep the **System.Net.WebRequest** or descendant that initiated the authentication process from interrupting while authorization is taking place, the authentication module sets the **System.Net.Authorization.Complete** property to **false**.

ConnectionGroupId

Unregister

[C#] public string ConnectionGroupId {get;}

[C++] public: property String* get ConnectionGroupId();

[VB] Public ReadOnly Property ConnectionGroupId As String

[JScript] public function get ConnectionGroupId(): String;

Description

Gets a unique identifier for user-specific connections.

The **System.Net.Authorization.ConnectionGroupId** property is a unique string that associates a connection with a specific authenticating entity. For example, the NTLM authorization module ties the authentication credential information to a specific connection to prevent invalid reuse of the connection.

Message

Unregister

[C#] public string Message {get;}

[C++] public: __property String* get_Message();

[VB] Public ReadOnly Property Message As String

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[JScript] public function get Message(): String; Description Gets the message returned to the server in response to an authentication challenge. The System.Net.Authorization.Message property contains the authorization string that the client will return to the server when accessing protected resources. The actual contents of the message is defined by the authentication type the client and server are using. Basic HTTP authentication, for example, uses a different message than Kerberos authentication. ProtectionRealm Unregister [C#] public string[] ProtectionRealm {get; set;} [C++] public: __property String* get_ProtectionRealm();public: __property void set ProtectionRealm(String* __gc[]); [VB] Public Property ProtectionRealm As String () [JScript] public function get ProtectionRealm(): String[];public function set ProtectionRealm(String[]); Description Gets or sets the prefix for uniform resource identifiers (URIs) that can be

Gets or sets the prefix for uniform resource identifiers (URIs) that can be authenticated with the **System.Net.Authorization.Message** property.

The System.Net.Authorization.ProtectionRealm property contains a list of URI prefixes that the System.Net.Authorization.Message property can be used to authenticate.

Cookie class (System.Net)

ToString

Description

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Provides a set of properties and methods used to manage cookies. This class cannot be inherited.

For a list of initial property values for an instance of **System.Net.Cookie**, see the **System.Net.Cookie.#ctor** constructors.

Cookie

Example Syntax:

ToString

[C#] public Cookie();

[C++] public: Cookie();

[VB] Public Sub New()

[JScript] public function Cookie(); Initializes a new instance of the

System.Net.Cookie class.

Description

Initializes a new instance of the **System.Net.Cookie** class using the empty string for default parameters: *name*, *value*, *path*, *domain*.

1	Cookie
2	Example Syntax:
3	ToString
4	
5	[C#] public Cookie(string name, string value);
6	[C++] public: Cookie(String* name, String* value);
7	[VB] Public Sub New(ByVal name As String, ByVal value As String)
8	[JScript] public function Cookie(name : String, value : String);
9	
10	Description
11	Initializes a new instance of the System.Net.Cookie class with specified
12	name and value, using the empty string for default parameters: path, domain.
13	string string
14	Cookie
15	Example Syntax:
16	ToString
17	
18	[C#] public Cookie(string name, string value, string path);
19	[C++] public: Cookie(String* name, String* value, String* path);
20	[VB] Public Sub New(ByVal name As String, ByVal value As String, ByVal path
21	As String)
22	[JScript] public function Cookie(name : String, value : String, path : String);
23	
24	Description
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Initializes a new instance of the System.Net.Cookie class with specified name, value, and path, using the empty string for default parameter domain. string string string Cookie Example Syntax: **ToString** [C#] public Cookie(string name, string value, string path, string domain); [C++] public: Cookie(String* name, String* value, String* path, String* domain); [VB] Public Sub New(ByVal name As String, ByVal value As String, ByVal path As String, ByVal domain As String) [JScript] public function Cookie(name : String, value : String, path : String, domain: String); Description Initializes a new instance of the System.Net.Cookie class with specified name, value, path, and domain. string string string Comment **ToString** [C#] public string Comment {get; set;} [C++] public: __property String* get_Comment();public: __property void set Comment(String*); [VB] Public Property Comment As String [JScript] public function get Comment(): String; public function set

,	Comment(String);
1	Comment(String),
2	
3	Description
4	Gets a comment that the server can add to the cookie.
5	The client can inspect this optional comment for information added by the
6	server about issues such as the privacy policy and so on.
7	CommentUri
8	ToString
9	
10	[C#] public Uri CommentUri {get; set;}
11	[C++] public:property Uri* get_CommentUri();public:property void
12	set_CommentUri(Uri*);
13	[VB] Public Property CommentUri As Uri
14	[JScript] public function get CommentUri(): Uri;public function set
15	CommentUri(Uri);
16	
17	Description
18	Gets a URI that the server can provide with a cookie.
19	The URI can provide optional information such as how the server uses the
20	cookie.
21	Discard
22	ToString
23	
24	[C#] public bool Discard {get; set;}
25	[C++] public:property bool get_Discard();public:property void
	H

1	set_Discard(bool);
2	[VB] Public Property Discard As Boolean
3	[JScript] public function get Discard(): Boolean; public function set
4	Discard(Boolean);
5	
6	Description
7	Gets the discard flag set by the server.
8	When true, this property instructs the Web browser not to save the cookie
9	on the user's hard drive when a session ends.
10	Domain
11	ToString
12	
13	[C#] public string Domain {get; set;}
14	[C++] public:property String* get_Domain();public:property void
15	set_Domain(String*);
16	[VB] Public Property Domain As String
17	[JScript] public function get Domain(): String; public function set Domain(String);
18	
19	Description
20	Gets the URI for which the cookie is valid.
21	A server cannot indicate a domain other than its own. However it can
22	indicate more than one server.
23	Expired
24	ToString
25	

```
[C#] public bool Expired {get; set;}
2
    [C++] public: __property bool get_Expired();public: __property void
3
    set Expired(bool);
    [VB] Public Property Expired As Boolean
5
    [JScript] public function get Expired(): Boolean; public function set
    Expired(Boolean);
8
    Description
           Gets the current state of the cookie.
10
           Expires
11
           ToString
12
13
    [C#] public DateTime Expires {get; set;}
14
    [C++] public: __property DateTime get_Expires();public: __property void
15
    set Expires(DateTime);
16
    [VB] Public Property Expires As DateTime
17
    [JScript] public function get Expires() : DateTime; public function set
18
    Expires(DateTime);
20
     Description
21
            Gets the expiration DateTime for the cookie.
22
            Name
23
            ToString
24
```

```
1
    [C#] public string Name {get; set;}
2
    [C++] public: __property String* get_Name();public: __property void
3
    set Name(String*);
4
    [VB] Public Property Name As String
5
    [JScript] public function get Name(): String; public function set Name(String);
7
    Description
8
           Gets the name for the cookie.
           Path
10
           ToString
11
12
    [C#] public string Path {get; set;}
13
    [C++] public: __property String* get_Path();public: __property void
14
    set Path(String*);
15
    [VB] Public Property Path As String
16
     [JScript] public function get Path(): String; public function set Path(String);
17
18
     Description
19
            Gets the URLs to which the cookie applies on the server.
20
            Port
21
            ToString
22
23
     [C#] public string Port {get; set;}
24
     [C++] public: __property String* get_Port();public: __property void
```

```
set Port(String*);
    [VB] Public Property Port As String
2
    [JScript] public function get Port(): String; public function set Port(String);
3
4
    Description
5
           Gets a list of TCP ports to which the cookie applies.
           Secure
           ToString
8
9
    [C#] public bool Secure {get; set;}
10
    [C++] public: __property bool get_Secure();public: __property void
11
    set Secure(bool);
12
    [VB] Public Property Secure As Boolean
13
    [JScript] public function get Secure(): Boolean; public function set
14
    Secure(Boolean);
15
16
    Description
17
           Gets the security level set by the server.
18
           TimeStamp
19
           ToString
20
21
     [C#] public DateTime TimeStamp {get;}
22
     [C++] public: __property DateTime get_TimeStamp();
23
     [VB] Public ReadOnly Property TimeStamp As DateTime
24
     [JScript] public function get TimeStamp(): DateTime;
```

Description
Gets the DateTime when the cookie was issued.
Value
ToString
[C#] public string Value {get; set;}
[C++] public:property String* get_Value();public:property void
set_Value(String*);
[VB] Public Property Value As String
[JScript] public function get Value() : String; public function set Value(String);
Description
Gets the server-supplied value for the cookie.
Version
ToString
[C#] public int Version {get; set;}
[C++] public:property int get_Version();public:property void
set_Version(int);
[VB] Public Property Version As Integer
[JScript] public function get Version(): int;public function set Version(int);
Description
Gets the version of HTTP state maintenance to which the cookie conforms.

	1	Equals
	2	
	3	[C#] public override bool Equals(object comparand);
	4	[C++] public: bool Equals(Object* comparand);
	5	[VB] Overrides Public Function Equals(ByVal comparand As Object) As Boolean
	6	[JScript] public override function Equals(comparand : Object) : Boolean;
	7	
	8	Description
Sta	9	An override of the Object. Equals method. A reference to a Cookie object.
institute the	10	GetHashCode
ti'' singi sinu sinsi sinsi singi singi sing	11	
i de la composition della comp	12	[C#] public override int GetHashCode();
i.	13	[C++] public: int GetHashCode();
finn ful	14	[VB] Overrides Public Function GetHashCode() As Integer
the strap that the three strates	15	[JScript] public override function GetHashCode(): int;
e de la companya de l	16	
	17	Description
	18	An override of Object.GetHashCode .
	19	ToString
	20	
	21	[C#] public override string ToString();
	22	[C++] public: String* ToString();
	23	[VB] Overrides Public Function ToString() As String
	24	[JScript] public override function ToString() : String;
	25	
		

1	
2	Description
3	An override of Object.ToString .
4	CookieCollection class (System.Net)
5	ToString
6	
7	
8	Description
9	Provides a collection container for Cookie or CookieCollection instances.
10	The CookieCollection class implements an ICollection interface to
11	provide a general mechanism for handling collections of cookies. For example,
12	this is useful in the case where an application wants to act on behalf of multiple
13	users and store cookies for each user.
14	CookieCollection
15	Example Syntax:
16	ToString
17	
18	[C#] public CookieCollection();
19	[C++] public: CookieCollection();
20	[VB] Public Sub New()
21	[JScript] public function CookieCollection();
22	
23	Description
24	Initializes a new instance of the System.Net.CookieCollection class.
25	Count

1	ToString
2	
3	[C#] public int Count {get;}
4	[C++] public:property int get_Count();
5	[VB] Public ReadOnly Property Count As Integer
6	[JScript] public function get Count(): int;
7	
8	Description
9	Gets the number of elements contained in the CookieCollection.
10	IsReadOnly
11	ToString
12	
13	[C#] public bool IsReadOnly {get;}
14	[C++] public:property bool get_IsReadOnly();
15	[VB] Public ReadOnly Property IsReadOnly As Boolean
16	[JScript] public function get IsReadOnly(): Boolean;
17	
18	Description
19	Gets or sets a value indicating whether the CoookieCollection instance is
20	read-only.
21	IsSynchronized
22	ToString
23	
24	[C#] public bool IsSynchronized {get;}
25	[C++] public:property bool get_IsSynchronized();

1	[VB] Public ReadOnly Property IsSynchronized As Boolean
2	[JScript] public function get IsSynchronized(): Boolean;
3	
4	Description
5	Gets a value that indicates whether access to a CookieCollection is thread-
6	safe.
7	SyncRoot returns an object that can be used to synchronize access to the
8	CookieCollection .
9	Item
10	ToString
11	
12	[C#] public Cookie this[int index] {get;}
13	[C++] public:property Cookie* get_Item(int index);
14	[VB] Public Default ReadOnly Property Item(ByVal index As Integer) As Cookie
15	[JScript] returnValue = CookieCollectionObject.Item(index); Gets a specific
16	CookieCollection element.
17	
18	Description
19	Gets the CookieCollection element with a specific index. The zero-based
20	index of the Cookie.
21	Item
22	ToString
23	
24	[C#] public Cookie this[string name] {get;}
25	[C++] public:property Cookie* get_Item(String* name);

1	[VB] Public Default ReadOnly Property Item(ByVal name As String) As Cookie
2	[JScript] returnValue = CookieCollectionObject.Item(name);
3	
4	Description
5	Gets the CookieCollection element with a specific name. The name of the
6	Cookie.
7	SyncRoot
8	ToString
9	
10	[C#] public object SyncRoot {get;}
11	[C++] public:property Object* get_SyncRoot();
12	[VB] Public ReadOnly Property SyncRoot As Object
13	[JScript] public function get SyncRoot() : Object;
14	
15	Description
16	Gets an object that you can use to synchronize access to the
17	CookieCollection .
18	Add
19	
20	[C#] public void Add(Cookie cookie);
21	[C++] public: void Add(Cookie* cookie);
22	[VB] Public Sub Add(ByVal cookie As Cookie)
23	[JScript] public function Add(cookie : Cookie); Adds an item to the
24	CookieCollection .
25	

1 Description 2 Adds a Cookie to the CookieCollection . The Cookie to be added to the 3 collection Add 5 6 [C#] public void Add(CookieCollection cookies); 7 [C++] public: void Add(CookieCollection* cookies); 8 [VB] Public Sub Add(ByVal cookies As CookieCollection) 9 [JScript] public function Add(cookies: CookieCollection); 10 11 Description 12 Adds a CookieCollection to the CookieCollection . The CookieCollection 13 to be added to the collection 14 CopyTo 15 16 [C#] public void CopyTo(Array array, int index); 17 [C++] public: __sealed void CopyTo(Array* array, int index); 18 [VB] NotOverridable Public Sub CopyTo(ByVal array As Array, ByVal index As 19 Integer) 20 [JScript] public function CopyTo(array: Array, index: int); 21 22 Description 23 Copies the elements of the collection to an Array, starting at a particular 24 index. 25

The Arrayarray must be a one-dimensional array with zero-based indexing. The target Array. The zero-based index in array at which copying begins.

GetEnumerator

[C#] public IEnumerator GetEnumerator();

[C++] public: __sealed IEnumerator* GetEnumerator();

[VB] NotOverridable Public Function GetEnumerator() As IEnumerator

[JScript] public function GetEnumerator(): IEnumerator;

Description

Gets an enumerator that you can use to iterate through a CookieCollection.

Return Value: An IEnumerator that you can use to iterate through a

Return Value: An **IEnumerator** that you can use to iterate through a **CookieCollection**.

You should only use Enumerators to read data in the collection.

Enumerators cannot be used to modify the underlying collection. The enumerator does not have exclusive access to the collection.

CookieContainer class (System.Net)

ToString

Description

Contains CookieCollection objects.

ToString

1	
2	[C#] public const int DefaultCookieLengthLimit;
3	[C++] public: const int DefaultCookieLengthLimit;
4	[VB] Public Const DefaultCookieLengthLimit As Integer
5	[JScript] public var DefaultCookieLengthLimit : int;
6	
7	Description
8	Gets the maximum size, in bytes, of elements the CookieContainer can
9	hold. This field is constant.
10	ToString
11	
12	[C#] public const int DefaultCookieLimit;
13	[C++] public: const int DefaultCookieLimit;
14	[VB] Public Const DefaultCookieLimit As Integer
15	[JScript] public var DefaultCookieLimit : int;
16	
17	Description
18	Gets the maximum number of elements the CookieContainer can hold.
19	This field is constant.
20	ToString
21	
22	[C#] public const int DefaultPerDomainCookieLimit;
23	[C++] public: const int DefaultPerDomainCookieLimit;
24	[VB] Public Const DefaultPerDomainCookieLimit As Integer
25	[JScript] public var DefaultPerDomainCookieLimit : int;

Description 2 Gets the maximum number of elements the CookieContainer can 3 reference per domain. This field is constant. CookieContainer 5 Example Syntax: **ToString** 7 8 [C#] public CookieContainer(); 9 [C++] public: CookieContainer(); 10 [VB] Public Sub New() 11 [JScript] public function CookieContainer(); Initializes a new instance of the 12 System.Net.CookieContainer class. 13 14 Description 15 Initializes a new instance of the System.Net.CookieContainer class with 16 $default\ values\ for\ \textbf{DefaultCookieLimit}\ ,\ \textbf{DefaultPerDomainCookieLimit}\ ,\ and$ 17 DefaultCookieLengthLimit . 18 CookieContainer 19 Example Syntax: 20 **ToString** 21 22 [C#] public CookieContainer(int capacity); 23

[C++] public: CookieContainer(int capacity);

[VB] Public Sub New(ByVal capacity As Integer)

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[JScript] public function CookieContainer(capacity: int); Description Initializes a new instance of the System.Net.CookieContainer class with a specified value for the number of elements the container can hold and default $values\ for\ \textbf{DefaultPerDomainCookieLimit}\ ,\ and\ \textbf{DefaultCookieLengthLimit}\ .$ The number of cookies the CookieContainer can hold. CookieContainer Example Syntax: **ToString** [C#] public CookieContainer(int capacity, int perDomainCapacity, int maxCookieSize); [C++] public: CookieContainer(int capacity, int perDomainCapacity, int maxCookieSize); [VB] Public Sub New(ByVal capacity As Integer, ByVal perDomainCapacity As Integer, ByVal maxCookieSize As Integer) [JScript] public function CookieContainer(capacity: int, perDomainCapacity: int, maxCookieSize: int); Description Initializes a new instance of the System.Net.CookieContainer class with a specified value for the number of elements the container can hold, the number of cookies per domain, and the maximum element length. The number of elements

1	the CookieContainer can hold. The number of elements per domain. The
2	maximum size of the elements CookieContainer can hold.
3	Capacity
4	ToString
5	
6	[C#] public int Capacity {get; set;}
7	[C++] public:property int get_Capacity();public:property void
8	set_Capacity(int);
9	[VB] Public Property Capacity As Integer
10	[JScript] public function get Capacity(): int;public function set Capacity(int);
11	
12	Description
13	Gets the number of elements the CookieContainer can hold.
14	Count
15	ToString
16	
17	[C#] public int Count {get;}
18	[C++] public:property int get_Count();
19	[VB] Public ReadOnly Property Count As Integer
20	[JScript] public function get Count(): int;
21	
22	Description
23	Gets the number of elements the CookieContainer currently holds.
24	MaxCookieSize
25	ToString

1	
2	[C#] public int MaxCookieSize {get; set;}
3	[C++] public:property int get_MaxCookieSize();public:property void
4	set_MaxCookieSize(int);
5	[VB] Public Property MaxCookieSize As Integer
6	[JScript] public function get MaxCookieSize(): int;public function set
7	MaxCookieSize(int);
8	
9	Description
10	Gets the maximum size of the elements held by the CookieContainer.
11	PerDomainCapacity
12	ToString
13	
14	[C#] public int PerDomainCapacity {get; set;}
15	[C++] public:property int get_PerDomainCapacity();public:property void
16	set_PerDomainCapacity(int);
17	[VB] Public Property PerDomainCapacity As Integer
18	[JScript] public function get PerDomainCapacity(): int;public function set
19	PerDomainCapacity(int);
20	
21	Description
22	Gets the number of elements allowed per domain.
23	Add
24	
25	[C#] public void Add(Cookie cookie);

1	[C++] public: void Add(Cookie* cookie);
2	[VB] Public Sub Add(ByVal cookie As Cookie)
3	[JScript] public function Add(cookie: Cookie); Adds elements to the
4	CookieContainer.
5	
6	Description
7	Adds a Cookie to the CookieContainer. The Cookie to be added to the
8	CookieContainer.
9	Add
10	
11	[C#] public void Add(CookieCollection cookies);
12	[C++] public: void Add(CookieCollection* cookies);
13	[VB] Public Sub Add(ByVal cookies As CookieCollection)
14	[JScript] public function Add(cookies : CookieCollection);
15	
16	Description
17	Adds a CookieCollection to the CookieContainer. The CookieCollection
18	to be added to the CookieContainer.
19	Add
20	
21	[C#] public void Add(Uri uri, Cookie cookie);
22	[C++] public: void Add(Uri* uri, Cookie* cookie);
23	[VB] Public Sub Add(ByVal uri As Uri, ByVal cookie As Cookie)
24	[JScript] public function Add(uri : Uri, cookie : Cookie);
25	

Description

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Adds a Cookie to the CookieContainer . The URI of the Cookie to be added to the CookieContainer . The Cookie to be added to the CookieContainer

Add

[C#] public void Add(Uri uri, CookieCollection cookies);

[C++] public: void Add(Uri* uri, CookieCollection* cookies);

[VB] Public Sub Add(ByVal uri As Uri, ByVal cookies As CookieCollection)

[JScript] public function Add(uri : Uri, cookies : CookieCollection);

Description

 $Adds\ a\ Cookie Collection\ to\ the\ Cookie Container\ .\ The\ URI\ of\ the$ $Cookie Collection\ to\ be\ added\ to\ the\ Cookie Container\ .\ The\ Cookie Collection\ to$ be\ added to\ the\ Cookie Container\ .

GetCookieHeader

[C#] public string GetCookieHeader(Uri uri);

[C++] public: String* GetCookieHeader(Uri* uri);

[VB] Public Function GetCookieHeader(ByVal uri As Uri) As String

[JScript] public function GetCookieHeader(uri : Uri) : String;

Description

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25

Gets the HTTP header of the element associated with a specific URI. The 1 URI desired. 2 **GetCookies** 3 [C#] public CookieCollection GetCookies(Uri uri); 5 [C++] public: CookieCollection* GetCookies(Uri* uri); 6 [VB] Public Function GetCookies(ByVal uri As Uri) As CookieCollection 7 [JScript] public function GetCookies(uri : Uri) : CookieCollection; 8 9 Description 10 Gets the elements associated with a specific URI. 11 Return Value: A CookieCollection containing the elements associated with a 12 specific URI. The URI of the elements desired. 13 **SetCookies** 14 15 [C#] public void SetCookies(Uri uri, string cookieHeader); 16 [C++] public: void SetCookies(Uri* uri, String* cookieHeader); 17 [VB] Public Sub SetCookies(ByVal uri As Uri, ByVal cookieHeader As String) 18 [JScript] public function SetCookies(uri : Uri, cookieHeader : String); 19 20 Description 21 Associates a cookie header with a specific URI . The URI of the header. 22 CookieException class (System.Net) 23 **ToString** 24 25

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1	
2	
3	Description
4	The exception that is thrown when XXX.
5	CookieException
6	Example Syntax:
7	ToString
8	
9	[C#] public CookieException();
10	[C++] public: CookieException();
11	[VB] Public Sub New()
12	[JScript] public function CookieException(); Initializes a new instance of the
13	System.Net.CookieException class.
14	
15	Description
16	Initializes a new instance of the System.Net.CookieException class using
17	default parameters.
18	CookieException
19	Example Syntax:
20	ToString
21	
22	[C#] protected CookieException(SerializationInfo serializationInfo,
23	StreamingContext streamingContext);
24	[C++] protected: CookieException(SerializationInfo* serializationInfo,
25	StreamingContext streamingContext);

1	[VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal
2	streamingContext As StreamingContext)
3	[JScript] protected function CookieException(serializationInfo : SerializationInfo,
4	streamingContext : StreamingContext);
5	
6	Description
7	Initializes a new instance of the System.Net.CookieException class with
8	specified values of serializationInfo and streamingContext. The SerializationInfo
9	to be used. The StreamingContext to be used.
10	HelpLink
11	HResult
12	InnerException
13	Message
14	Source
15	StackTrace
16	TargetSite
17	ISerializable.GetObjectData
18	
19	[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,
20	StreamingContext streamingContext);
21	[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,
22	StreamingContext streamingContext);
23	[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal
24	streamingContext As StreamingContext) Implements ISerializable.GetObjectData
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[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo, streamingContext: StreamingContext); CredentialCache class (System.Net) **ToString** Description Provides storage for multiple credentials. The System.Net.CredentialCache class stores credentials for multiple Internet resources. Applications that need to access multiple resources can store the credentials for those resources in a System.Net.CredentialCache instance that then provides the proper set of credentials to the Internet resource when required. When the System. Net. Credential Cache. Get Credential (System. Uri, System. String)method is called, it compares the URI and authentication type provided with those stored in the cache and returns the first set of credentials that match. CredentialCache Example Syntax: **ToString** [C#] public CredentialCache(); [C++] public: CredentialCache(); [VB] Public Sub New() [JScript] public function CredentialCache();

Description

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Creates a new instance of the System.Net.CredentialCache class.

The constructor creates a **System.Net.CredentialCache** instance with its **System.Net.CredentialCache.DefaultCredentials** property initialized to the system credentials of the current security context. For client applications, these represent the user name, password, and domain of the user who is currently logged in. For ASP.NET applications, the credential is the process token of the IIS server or the process token being impersonated by the IIS server.

DefaultCredentials

ToString

[C#] public static ICredentials DefaultCredentials {get;}

[C++] public: __property static ICredentials* get_DefaultCredentials();

[VB] Public Shared ReadOnly Property DefaultCredentials As ICredentials

[JScript] public static function get DefaultCredentials(): ICredentials;

Description

Gets the system credentials of the application.

The **System.Net.CredentialCache.DefaultCredentials** property applies only to NTLM, negotiate, and Kerberos-based authentication.

Add

[C#] public void Add(Uri uriPrefix, string authType, NetworkCredential cred); [C++] public: void Add(Uri* uriPrefix, String* authType, NetworkCredential*

1	cred);
2	[VB] Public Sub Add(ByVal uriPrefix As Uri, ByVal authType As String, ByVal
3	cred As NetworkCredential)
4	[JScript] public function Add(uriPrefix : Uri, authType : String, cred :
5	NetworkCredential);
6	
7	Description
8	Adds a System.Net.NetworkCredential instance to the credential cache.
9	The
10	System.Net.CredentialCache.Add(System.Uri,System.String,System.Net.Netw
11	orkCredential) method places a System.Net.NetworkCredential instance into
12	the System.Net.CredentialCache. The cache stores credentials in the order in
13	which they are added to it. When the
14	System.Net.CredentialCache.GetCredential(System.Uri,System.String)
15	method is called, it returns the proper matching System.Net.NetworkCredential
16	instance. A System.Uri that specifies the URI prefix of the resources that the
17	credential grants access to. The authentication scheme used by the resource named
18	in uriPrefix. The System.Net.NetworkCredential to add to the credential cache.
19	GetCredential
20	
21	[C#] public NetworkCredential GetCredential(Uri uriPrefix, string authType);
22	[C++] public:sealed NetworkCredential* GetCredential(Uri* uriPrefix, String*
23	authType);
24	[VB] NotOverridable Public Function GetCredential(ByVal uriPrefix As Uri,
25	ByVal authType As String) As NetworkCredential

1	[JScript] public function GetCredential(uriPrefix : Uri, authType : String) :
2	NetworkCredential;
3	
4	Description
5	Returns the System.Net.NetworkCredential instance associated with the
6	specified URI and authentication type.
7	Return Value: A System.Net.NetworkCredential or, if there is no matching
8	credential in the cache, null.
9	The
10	System.Net.CredentialCache.GetCredential(System.Uri,System.String)
11	method searches the System.Net.CredentialCache and returns the
12	System.Net.NetworkCredential instance for the specified URI and authorization
13	type. If the System.Net.CredentialCache contains no matching
14	System.Net.NetworkCredential instance, null is returned. A System.Uri that
15	specifies the URI prefix of the resources that the credential grants access to. The
16	authentication scheme used by the resource named in uriPrefix.
17	GetEnumerator
18	
19	[C#] public IEnumerator GetEnumerator();
20	[C++] public:sealed IEnumerator* GetEnumerator();
21	[VB] NotOverridable Public Function GetEnumerator() As IEnumerator
22	[JScript] public function GetEnumerator() : IEnumerator;
23	
24	Description
25	

Returns an enumerator that can iterate through the 1 ${\bf System. Net. Credential Cache}\ instance.$ 2 Return Value: An System.Collections.IEnumerator for the 3 System.Net.CredentialCache. 4 Remove 5 6 [C#] public void Remove(Uri uriPrefix, string authType); 7 [C++] public: void Remove(Uri* uriPrefix, String* authType); 8 [VB] Public Sub Remove(ByVal uriPrefix As Uri, ByVal authType As String) 9 [JScript] public function Remove(uriPrefix : Uri, authType : String); 10 11 Description 12 Deletes a System.Net.NetworkCredential instance from the cache. 13 The System.Net.CredentialCache.Remove(System.Uri,System.String) 14 method removes the specified System.Net.NetworkCredential instance from the 15 System.Net.CredentialCache . Multiple calls to the 16 ${\bf System. Net. Credential Cache. Remove (System. Uri, System. String)}\ method\ for$ 17 the same System.Net.NetworkCredential have no effect. A System.Uri that 18 specifies the URI prefix of the resources that the credential is used for. The 19 authentication scheme used by the host named in uriPrefix. 20 Dns class (System.Net) 21 **ToString** 22 23

Description

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Provides simple domain name resolution functionality.

The **System.Net.Dns** class is a static class that retrieves information about a specific host from the Internet Domain Name System (DNS).

BeginGetHostByName

[C#] public static IAsyncResult BeginGetHostByName(string hostName,

AsyncCallback requestCallback, object stateObject);

[C++] public: static IAsyncResult* BeginGetHostByName(String* hostName,

AsyncCallback* requestCallback, Object* stateObject);

[VB] Public Shared Function BeginGetHostByName(ByVal hostName As String,

ByVal requestCallback As AsyncCallback, ByVal stateObject As Object) As

IAsyncResult

[JScript] public static function BeginGetHostByName(hostName: String,

requestCallback : AsyncCallback, stateObject : Object) : IAsyncResult;

Description

Begins an asynchronous request for **System.Net.IPHostEntry** information about the specified DNS host name.

Return Value: An System.IAsyncResult instance that references the asynchronous request.

The

System. Net. Dns. Begin Get Host By Name (System. String, System. As ync Callback, System. S

System.Object) method starts an asynchronous request for DNS host information.

The asynchronous callback method uses the

System.Net.Dns.EndGetHostByName(System.IAsyncResult) method to return

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IAsyncResult The

the actual host information. A string containing the DNS name of the host. The System.AsyncCallback. The State object.

BeginResolve

[C#] public static IAsyncResult BeginResolve(string hostName, AsyncCallback requestCallback, object stateObject);

[C++] public: static IAsyncResult* BeginResolve(String* hostName,

AsyncCallback* requestCallback, Object* stateObject);

[VB] Public Shared Function BeginResolve(ByVal hostName As String, ByVal requestCallback As AsyncCallback, ByVal stateObject As Object) As

[JScript] public static function BeginResolve(hostName : String, requestCallback :

AsyncCallback, stateObject : Object) : IAsyncResult;

Description

Begins an asynchronous request to resolve a DNS host name or IP address in dotted-quad notation to an System.Net.IPAddress instance.

Return Value: An System.IAsyncResult instance that references the asynchronous request.

System. Net. Dns. Begin Resolve (System. String, System. Async Callback, System.

Object) method starts an asynchronous request for DNS host information. The asynchronous callback method uses the

System.Net.Dns.EndResolve(System.IAsyncResult) method to return the actual

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host information. A string containing the DNS name of the host. The System. Async Callback. The State object. EndGetHostByName [C#] public static IPHostEntry EndGetHostByName(IAsyncResult asyncResult); [C++] public: static IPHostEntry* EndGetHostByName(IAsyncResult* asyncResult); [VB] Public Shared Function EndGetHostByName(ByVal asyncResult As IAsyncResult) As IPHostEntry [JScript] public static function EndGetHostByName(asyncResult : IAsyncResult) : IPHostEntry; Description Ends an asynchronous request for DNS information. Return Value: An System.Net.IPHostEntry object containin DNS information about a host. The System.Net.Dns.EndGetHostByName(System.IAsyncResult) method completes an asynchronous request for DNS information that was started with a call to System. Net. Dns. Begin Get Host By Name (System. String, System. As ync Callback, System. As ync Callback, System. System.System.Object) . The pending request for DNS information. EndResolve [C#] public static IPHostEntry EndResolve(IAsyncResult asyncResult);

[C++] public: static IPHostEntry* EndResolve(IAsyncResult* asyncResult);

1	[VB] Public Shared Function EndResolve(ByVal asyncResult As IAsyncResult)
2	As IPHostEntry
3	[JScript] public static function EndResolve(asyncResult : IAsyncResult) :
4	IPHostEntry;
5	
6	Description
7	Ends an asynchronous request for DNS information.
8	Return Value: An System.Net.IPHostEntry object containin DNS information
9	about a host.
10	The System.Net.Dns.EndResolve(System.IAsyncResult) method
11	completes an asynchronous request for DNS information that was started with a
12	call to
13	System.Net.Dns.BeginResolve(System.String,System.AsyncCallback,System.
14	Object). The pending request for DNS information.
15	GetHostByAddress
16	
17	[C#] public static IPHostEntry GetHostByAddress(IPAddress address);
18	[C++] public: static IPHostEntry* GetHostByAddress(IPAddress* address);
19	[VB] Public Shared Function GetHostByAddress(ByVal address As IPAddress)
20	As IPHostEntry
21	[JScript] public static function GetHostByAddress(address : IPAddress) :
22	IPHostEntry;
23	
24	Description
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Creates an **System.Net.IPHostEntry** instance from a specified **System.Net.IPAddress** instance.

Return Value: An System.Net.IPHostEntry instance. An System.Net.IPAddress instance.

GetHostByAddress

[C#] public static IPHostEntry GetHostByAddress(string address);

[C++] public: static IPHostEntry* GetHostByAddress(String* address);

[VB] Public Shared Function GetHostByAddress(ByVal address As String) As IPHostEntry

[JScript] public static function GetHostByAddress(address: String): IPHostEntry; Gets DNS host information for an IP address.

Description

Creates an **System.Net.IPHostEntry** instance from an address in dotted-quad notation ("198.162.1.2").

Return Value: An System.Net.IPHostEntry instance. A string that represents an IP address in dotted-quad notation (for example, "192.168.1.2").

GetHostByName

[C#] public static IPHostEntry GetHostByName(string hostName);

[C++] public: static IPHostEntry* GetHostByName(String* hostName);

[VB] Public Shared Function GetHostByName(ByVal hostName As String) As

IPHostEntry

[JScript] public static function GetHostByName(hostName : String) :

IPHostEntry; 2 Description 3 Gets the DNS information for the specified DNS host name. 4 Return Value: An System.Net.IPHostEntry object containing host information 5 for the address specified in hostName . 6 The System.Net.Dns.GetHostByName(System.String) method queries 7 the Internet DNS server for host information. A string containing the DNS name 8 of the host. 9 GetHostName 10 11 [C#] public static string GetHostName(); 12 [C++] public: static String* GetHostName(); 13 [VB] Public Shared Function GetHostName() As String [JScript] public static function GetHostName(): String; 15 16 Description 17 Gets the host name of the local machine. 18 Return Value: A string containing the DNS host name of the local machine. 19 **IpToString** 20 21 [C#] public static string IpToString(int address); 22 [C++] public: static String* IpToString(int address); 23 [VB] Public Shared Function IpToString(ByVal address As Integer) As String [JScript] public static function IpToString(address: int): String; 25

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Converts an IP address to a dotted-quad string.

Return Value: The string representation of the IP address.

The **System.Net.Dns.IpToString(System.Int32)** method converts an IP address expressed as an integer (for example, 33663168) to an IP address expressed in dotted-quad notation (for example, "192.168.1.2"). The IP address to convert.

Resolve

[C#] public static IPHostEntry Resolve(string hostName);

[C++] public: static IPHostEntry* Resolve(String* hostName);

[VB] Public Shared Function Resolve(ByVal hostName As String) As

IPHostEntry

[JScript] public static function Resolve(hostName : String) : IPHostEntry;

Description

Resolves a DNS host name or IP address in dotted-quad notation to an **System.Net.IPHostEntry** instance.

Return Value: An System.Net.IPHostEntry instance containing address information about the host specified in hostName.

The **System.Net.Dns.Resolve(System.String)** method queries a DNS server for the IP address associated with a host name or IP address in dotted-quad notation. A DNS-style host name or IP address in dotted-quad notation. (for example, "www.contoso.com" or "192.168.1.2").

DnsPermission class (System.Net) **ToString** 2 3 Description5 Controls rights to access Domain Name System (DNS) servers on the 6 network. 7 The default allows all local and Intranet zone applications to access DNS 8 services, and no DNS permission for Internet zone applications. 9 **DnsPermission** 10 Example Syntax: 11 **ToString** 12 13 [C#] public DnsPermission(PermissionState state); 14 [C++] public: DnsPermission(PermissionState state); 15 [VB] Public Sub New(ByVal state As PermissionState) 16 [JScript] public function DnsPermission(state : PermissionState); Creates a new 17 instance of the System.Net.DnsPermission class. 18 19 Description 20 Creates a new instance of the System.Net.DnsPermission class that either 21 passes all demands or fails all demands. 22 If state is System. Security. Permissions. Permission State. Unrestricted the 23 System.Net.DnsPermission instance passes all demands. If state contains any 24

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other value, the System. Net. Dns Permission instance fails all demands. One of the System.Security.Permissions.PermissionState values. Copy [C#] public override IPermission Copy(); [C++] public: IPermission* Copy(); [VB] Overrides Public Function Copy() As IPermission [JScript] public override function Copy(): IPermission; Description Creates an identical copy of the current permission instance. Return Value: A new instance of the System.Net.DnsPermission class that is an 12 identical copy of the current instance. 13 A copy of a System. Net. Dns Permission instance provides the same access 14 to DNS servers as the original permission instance. 15 FromXml 16 17 [C#] public override void FromXml(SecurityElement securityElement); 18 [C++] public: void FromXml(SecurityElement* securityElement); 19 [VB] Overrides Public Sub FromXml(ByVal securityElement As 20 SecurityElement) 21 [JScript] public override function FromXml(securityElement : SecurityElement); 22 23 Description 24

Reconstructs a **System.Net.DnsPermission** instance from an XML encoding.

The

System.Net.DnsPermission.FromXml(System.Security.SecurityElement) method reconstructs a System.Net.DnsPermission instance from an XML encoding defined by System.Security.SecurityElement class. The XML encoding to use to reconstruct the System.Net.DnsPermission instance.

Intersect

[C#] public override IPermission Intersect(IPermission target);

[C++] public: IPermission* Intersect(IPermission* target);

[VB] Overrides Public Function Intersect(ByVal target As IPermission) As

IPermission

[JScript] public override function Intersect(target: IPermission): IPermission;

Description

Creates a permission instance that is the intersection of the current permission instance and the specified permission instance.

Return Value: A System.Net.DnsPermission instance that represents the intersection of the current System.Net.DnsPermission instance with the specified System.Net.DnsPermission instance, or null if the intersection is empty.

The System.Net.DnsPermission.Intersect(System.Security.IPermission)
method returns a System.Net.DnsPermission instance that allows the access
defined by both the current System.Net.DnsPermission instance and the specified
System.Net.DnsPermission instance. Any demand must pass both permissions to

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pass their intersection. The System.Net.DnsPermission instance to combine with the current instance. **IsSubsetOf** [C#] public override bool IsSubsetOf(IPermission target); [C++] public: bool IsSubsetOf(IPermission* target); [VB] Overrides Public Function IsSubsetOf(ByVal target As IPermission) As Boolean [JScript] public override function IsSubsetOf(target: IPermission): Boolean; Description Determines whether the current permission instance is a subset of the specified permission instance. Return Value: true if the current permission instance is a subset of target; otherwise, false. The current System.Net.DnsPermission instance is a subset of the specified System.Net.DnsPermission instance if the current System.Net.DnsPermission instance specifies a set of operations that is wholly contained by the specified System. Net. Dns Permission instance. The second System. Net. Dns Permission instance to be tested for the subset relationship. IsUnrestricted [C#] public bool IsUnrestricted(); [C++] public: sealed bool IsUnrestricted();

[VB] NotOverridable Public Function IsUnrestricted() As Boolean

[JScript] public function IsUnrestricted(): Boolean; 2 Description 3 Checks the overall permission state of the object. Return Value: true if the System.Net.DnsPermission instance was created with 5 System.Security.Permissions.PermissionState.Unrestricted; otherwise, false. 6 ToXml 7 8 [C#] public override SecurityElement ToXml(); 9 [C++] public: SecurityElement* ToXml(); 10 [VB] Overrides Public Function ToXml() As SecurityElement 11 [JScript] public override function ToXml(): SecurityElement; 12 13 Description 14 Creates an XML encoding of a System.Net.DnsPermission instance and 15 its current state. 16 Return Value: A System.Security.SecurityElement instance containing an XML-17 encoded representation of the security object, including state information. 18 The System.Net.DnsPermission.ToXml method creates a 19 System.Security.SecurityElement instance to XML-encode a representation of 20 the System. Net. Dns Permission instance, including state information. 21 Union 22 23 [C#] public override IPermission Union(IPermission target); [C++] public: IPermission* Union(IPermission* target);

[VB] Overrides Public Function Union(ByVal target As IPermission) As IPermission

[JScript] public override function Union(target : IPermission) : IPermission;

Description

Creates a permission instance that is the union of the current permission instance and the specified permission instance.

Return Value: A System.Net.DnsPermission instance that represents the union of the current System.Net.DnsPermission instance with the specified System.Net.DnsPermission instance.

The System.Net.DnsPermission.Union(System.Security.IPermission) method returns a System.Net.DnsPermission instance that allows the access defined by either the current System.Net.DnsPermission instance and the specified System.Net.DnsPermission instance. Any demand that passes either permission passes their union. The System.Net.DnsPermission instance to combine with the current instance.

DnsPermissionAttribute class (System.Net)

Union

Description

Enables security actions for **System.Net.DnsPermission** to be applied to code using declarative security. This class cannot be inherited.

DnsPermissionAttribute

Example Syntax:

1	Union
2	
3	[C#] public DnsPermissionAttribute(SecurityAction action);
4	[C++] public: DnsPermissionAttribute(SecurityAction action);
5	[VB] Public Sub New(ByVal action As SecurityAction)
6	[JScript] public function DnsPermissionAttribute(action: SecurityAction);
7	
8	Description
9	Initializes a new instance of the System.Net.DnsPermissionAttribute
10	class with the specified System.Security.Permissions.SecurityAction value. One
11	of the System. Security. Permissions. Security Action values.
12	Action
13	TypeId
14	Unrestricted
15	CreatePermission
16	
17	[C#] public override IPermission CreatePermission();
18	[C++] public: IPermission* CreatePermission();
19	[VB] Overrides Public Function CreatePermission() As IPermission
20	[JScript] public override function CreatePermission(): IPermission;
21	
22	Description
23	Creates and returns a new instance of the System.Net.DnsPermission
24	class.
25	

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Return Value: An instance of the **System.Net.DnsPermission** class corresponding to the security declaration.

The **System.Net.DnsPermissionAttribute.CreatePermission** method is called by the security system, not by application code.

EndPoint class (System.Net)

ToString

Description

Identifies a network address. This is an abstract class.

The **System.Net.EndPoint** class provides an **abstract** base class that represents a network resource or service. Descendant classes combine network connection information to form a connection point to a service.

EndPoint

Example Syntax:

ToString

[C#] protected EndPoint();

[C++] protected: EndPoint();

[VB] Protected Sub New()

[JScript] protected function EndPoint();

AddressFamily

ToString

[C#] public virtual AddressFamily AddressFamily {get;}

1	[C++] public:property virtual AddressFamily get_AddressFamily();
2	[VB] Overridable Public ReadOnly Property AddressFamily As AddressFamily
3	[JScript] public function get AddressFamily(): AddressFamily;
4	
5	Description
6	Gets the address family to which the endpoint belongs.
7	The System.Net.EndPoint.AddressFamily property specifies the
8	addressing scheme used by the end point's underlying network protocol.
9	Create
10	
11	[C#] public virtual EndPoint Create(SocketAddress socketAddress);
12	[C++] public: virtual EndPoint* Create(SocketAddress* socketAddress);
13	[VB] Overridable Public Function Create(ByVal socketAddress As
14	SocketAddress) As EndPoint
15	[JScript] public function Create(socketAddress : SocketAddress) : EndPoint;
16	
17	Description
18	Creates an System.Net.EndPoint instance from a
19	System.Net.SocketAddress instance.
20	Return Value: A new System.Net.EndPoint instance initialized from the specified
21	System.Net.SocketAddress instance. The socket address that serves as the
22	endpoint for a connection.
23	Serialize
24	
25	[C#] public virtual SocketAddress Serialize();

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[C++] public: virtual SocketAddress* Serialize(); [VB] Overridable Public Function Serialize() As SocketAddress [JScript] public function Serialize(): SocketAddress; Description Serializes endpoint information into a System.Net.SocketAddress instance. Return Value: A System.Net.SocketAddress instance containing the endpoint information. EndpointPermission class (System.Net) **ToString** Description Defines an endpoint that is authorized by a System.Net.SocketPermission instance. The System.Net.EndpointPermission class defines a network endpoint, including host name, network port number, and transport type used to make the connection. Hostname **ToString** [C#] public string Hostname {get;} [C++] public: __property String* get_Hostname();

[VB] Public ReadOnly Property Hostname As String

1	[JScript] public function get Hostname(): String;
2	
3	Description
4	Gets the DNS host name or IP address of the server associated with this
5	endpoint.
6	Port
7	ToString
8	
9	[C#] public int Port {get;}
10	[C++] public:property int get_Port();
11	[VB] Public ReadOnly Property Port As Integer
12	[JScript] public function get Port(): int;
13	
14	Description
15	Gets the network port number associated with this endpoint.
16	Transport
17	ToString
18	
19	[C#] public TransportType Transport {get;}
20	[C++] public:property TransportType get_Transport();
21	[VB] Public ReadOnly Property Transport As TransportType
22	[JScript] public function get Transport(): TransportType;
23	
24	Description
25	Gets the transport type associated with this endpoint.

1	Equals
2	
3	[C#] public override bool Equals(object obj);
4	[C++] public: bool Equals(Object* obj);
5	[VB] Overrides Public Function Equals(ByVal obj As Object) As Boolean
6	[JScript] public override function Equals(obj : Object) : Boolean;
7	
8	Description
9	
10	GetHashCode
11	
12	[C#] public override int GetHashCode();
13	[C++] public: int GetHashCode();
14	[VB] Overrides Public Function GetHashCode() As Integer
15	[JScript] public override function GetHashCode(): int;
16	
17	Description
18	
19	ToString
20	
21	[C#] public override string ToString();
22	[C++] public: String* ToString();
23	[VB] Overrides Public Function ToString() As String
24	[JScript] public override function ToString(): String;
25	

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2	Description
3	Returns a string that represents the current
4	System.Net.EndpointPermission instance.
5	Return Value: A string that represents the current
6	System.Net.EndpointPermission instance.
7	The System.Net.EndpointPermission.ToString method returns a string
8	representing the contents for the System.Net.EndpointPermission instance. The
9	string is in the form System.Net.EndpointPermission.Hostname#
10	System.Net.EndpointPermission.Port #
11	System.Net.EndpointPermission.Transport.
12	FileWebRequest class (System.Net)
13	ToString
14	
15	
16	Description
17	Provides a file system implementation of the System.Net.WebRequest
18	class.
19	The System.Net.FileWebRequest class implements the
20	System.Net.WebRequestabstract base class for URIs that use the file:// scheme
21	to request local files.
22	FileWebRequest
23	Example Syntax:
24	ToString
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[C#] protected FileWebRequest(SerializationInfo serializationInfo,
StreamingContext streamingContext);
[C++] protected: FileWebRequest(SerializationInfo* serializationInfo,
StreamingContext streamingContext);
[VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal
streamingContext As StreamingContext)
[JScript] protected function FileWebRequest(serializationInfo: SerializationInfo,
streamingContext : StreamingContext);
Description
Initializes a new instance of the System.Net.FileWebRequest class from
the specified instances of the System.Runtime.Serialization.SerializationInfo
and System.Runtime.Serialization.StreamingContext classes.
This constructor implements the
System.Runtime.Serialization.ISerializable interface for the
System.Net.FileWebRequest class. A
System.Runtime.Serialization.SerializationInfo instance that contains the
information required to serialize the new System.Net.FileWebRequest instance.
An instance of the System.Runtime.Serialization.StreamingContext class that
contains the source of the serialized stream associated with the new

ConnectionGroupName

 ${\bf System. Net. File Web Request} \ in stance.$

ToString

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[C#] public override string ConnectionGroupName {get; set;} [C++] public: __property virtual String* get_ConnectionGroupName();public: property virtual void set ConnectionGroupName(String*); [VB] Overrides Public Property ConnectionGroupName As String [JScript] public function get ConnectionGroupName(): String; public function set ConnectionGroupName(String); Description Gets or sets the name of the connection group for the request. This property is reserved for future use. The System.Net.FileWebRequest.ConnectionGroupName property is currently not used by the System.Net.FileWebRequest class. ContentLength **ToString** [C#] public override long ContentLength {get; set;} [C++] public: __property virtual __int64 get_ContentLength();public: __property virtual void set ContentLength(__int64); [VB] Overrides Public Property ContentLength As Long [JScript] public function get ContentLength(): long;public function set ContentLength(long); Description

Gets or sets the content length of the data being sent.

1	ContentType
2	ToString
3	
4	[C#] public override string ContentType {get; set;}
5	[C++] public:property virtual String* get_ContentType();public:property
6	<pre>virtual void set_ContentType(String*);</pre>
7	[VB] Overrides Public Property ContentType As String
8	[JScript] public function get ContentType() : String;public function set
9	ContentType(String);
10	
11	Description
12	Gets or sets the content type of the data being sent. This property is
13	reserved for future use.
14	The System.Net.FileWebRequest.ContentType property contains the
15	media type of the data being sent. This is typically the MIME encoding of the
16	content. The System.Net.FileWebRequest.ContentType property is currently not
17	used by the System.Net.FileWebRequest class.
18	Credentials
19	ToString
20	
21	[C#] public override ICredentials Credentials {get; set;}
22	[C++] public:property virtual ICredentials* get_Credentials();public:
23	property virtual void set_Credentials(ICredentials*);
24	[VB] Overrides Public Property Credentials As ICredentials
25	[JScript] public function get Credentials(): ICredentials; public function set

25

Credentials(ICredentials);

Description

Gets or sets the credentials associated with this request. This property is reserved for future use.

Because the **System.Net.FileWebRequest** class does not authenticate requests for files from the local file system, it ignores the contents, if any, of the **System.Net.FileWebRequest.Credentials** property. Authentication for **System.Net.FileWebRequest** is handled by the access control lists for the file resource in the underlying file system.

Headers

ToString

[C#] public override WebHeaderCollection Headers {get;}

[C++] public: __property virtual WebHeaderCollection* get_Headers();

[VB] Overrides Public ReadOnly Property Headers As WebHeaderCollection

[JScript] public function get Headers(): WebHeaderCollection;

Description

Gets a collection of the name/value pairs associated with the request. This property is reserved for future use.

The **System.Net.FileWebRequest.Headers** property is currently not used by the **System.Net.FileWebRequest** class.

Method

ToString

1	
2	[C#] public override string Method {get; set;}
3	[C++] public:property virtual String* get_Method();public:property virtual
4	<pre>void set_Method(String*);</pre>
5	[VB] Overrides Public Property Method As String
6	[JScript] public function get Method(): String; public function set Method(String);
7	
8	Description
9	Gets or sets the protocol method used for the request. This property is
10	reserved for future use.
11	The System.Net.FileWebRequest.Method property is currently not used
12	by the System.Net.FileWebRequest class.
13	PreAuthenticate
14	ToString
15	
16	[C#] public override bool PreAuthenticate {get; set;}
17	[C++] public:property virtual bool get_PreAuthenticate();public:property
18	virtual void set_PreAuthenticate(bool);
19	[VB] Overrides Public Property PreAuthenticate As Boolean
20	[JScript] public function get PreAuthenticate(): Boolean; public function set
21	PreAuthenticate(Boolean);
22	
23	Description
24	Gets or sets a value indicating whether to preauthenticate a request. This
25	property is reserved for future use.

1	The System.Net.FileWebRequest.PreAuthenticate property is currently
2	not used by the System.Net.FileWebRequest class.
3	Proxy
4	ToString
5	
6	[C#] public override IWebProxy Proxy {get; set;}
7	[C++] public:property virtual IWebProxy* get_Proxy();public:property
8	<pre>virtual void set_Proxy(IWebProxy*);</pre>
9	[VB] Overrides Public Property Proxy As IWebProxy
10	[JScript] public function get Proxy(): IWebProxy;public function set
11	Proxy(IWebProxy);
12	
13	Description
14	Gets or sets the network proxy to use for this request. This property is
15	reserved for future use.
16	The System.Net.FileWebRequest.Proxy property is currently not used by
17	the System.Net.FileWebRequest class.
18	RequestUri
19	ToString
20	
21	[C#] public override Uri RequestUri {get;}
22	[C++] public:property virtual Uri* get_RequestUri();
23	[VB] Overrides Public ReadOnly Property RequestUri As Uri
24	[JScript] public function get RequestUri() : Uri;
25	

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1	
2	Description
3	Gets the URI of the request.
4	Timeout
5	ToString
6	
7	[C#] public override int Timeout {get; set;}
8	[C++] public:property virtual int get_Timeout();public:property virtual void
9	set_Timeout(int);
10	[VB] Overrides Public Property Timeout As Integer
11	[JScript] public function get Timeout(): int;public function set Timeout(int);
12	
13	Description
14	Gets or sets the length of time until the request times out.
15	BeginGetRequestStream
16	
17	[C#] public override IAsyncResult BeginGetRequestStream(AsyncCallback
18	callback, object state);
19	[C++] public: IAsyncResult* BeginGetRequestStream(AsyncCallback* callback,
20	Object* state);
21	[VB] Overrides Public Function BeginGetRequestStream(ByVal callback As
22	AsyncCallback, ByVal state As Object) As IAsyncResult
23	[JScript] public override function BeginGetRequestStream(callback:
24	AsyncCallback, state: Object): IAsyncResult;
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Description

Begins an asynchronous request for a **System.IO.Stream** instance to use to write data.

Return Value: An System.IAsyncResult that references the asynchronous request.

The

System.Net.FileWebRequest.BeginGetRequestStream(System.AsyncCallback, System.Object) method starts an asynchronous request for a stream used to send data to a file system resource. The callback method that implements the System.AsyncCallback delegate uses the

System.Net.FileWebRequest.EndGetRequestStream(System.IAsyncResult) method to return the request stream. The System.AsyncCallback delegate. An object containing state information for this request.

BeginGetResponse

[C#] public override IAsyncResult BeginGetResponse(AsyncCallback callback, object state);

[C++] public: IAsyncResult* BeginGetResponse(AsyncCallback* callback, Object* state);

[VB] Overrides Public Function BeginGetResponse(ByVal callback As AsyncCallback, ByVal state As Object) As IAsyncResult

[JScript] public override function BeginGetResponse(callback : AsyncCallback, state : Object) : IAsyncResult;

Description

Begins an asynchronous request for a file system resource.

Return Value: An System.IAsyncResult that references the asynchronous request.

The

System.Net.FileWebRequest.BeginGetResponse(System.AsyncCallback,System.Object) method starts an asynchronous request for a file system resource. The asynchronous callback method that implements the System.AsyncCallback delegate uses the

System.Net.FileWebRequest.EndGetResponse(System.IAsyncResult) method to return the actual System.Net.FileWebResponse . The System.AsyncCallback delegate. An object containing state information for this request.

EndGetRequestStream

[C#] public override Stream EndGetRequestStream(IAsyncResult asyncResult);
[C++] public: Stream* EndGetRequestStream(IAsyncResult* asyncResult);
[VB] Overrides Public Function EndGetRequestStream(ByVal asyncResult As IAsyncResult) As Stream
[JScript] public override function EndGetRequestStream(asyncResult:

Description

IAsyncResult): Stream;

Ends an asynchronous request for a **System.IO.Stream** instance that the application uses to write data.

Return Value: A System.IO.Stream instance that the application uses to write data.

The

System.Net.FileWebRequest.EndGetRequestStream(System.IAsyncResult)
method completes an asynchronous stream request that was started by the
System.Net.FileWebRequest.BeginGetRequestStream(System.AsyncCallback
,System.Object) method. An System.IAsyncResult referencing the pending
request for a stream.

EndGetResponse

[C#] public override WebResponse EndGetResponse(IAsyncResult asyncResult);
[C++] public: WebResponse* EndGetResponse(IAsyncResult* asyncResult);
[VB] Overrides Public Function EndGetResponse(ByVal asyncResult As
IAsyncResult) As WebResponse
[JScript] public override function EndGetResponse(asyncResult : IAsyncResult) :
WebResponse;

Description

Ends an asynchronous request for a file system resource.

Return Value: A System.Net.WebResponse that contains the response from the file system resource.

The

System.Net.FileWebRequest.EndGetResponse(System.IAsyncResult) method completes an asynchronous request for a file system resource that was started with the

System. Net. File WebRequest. Begin Get Response (System. As ync Callback, System. As ync Call

m.Object) method. An System.IAsyncResult referencing the pending request for a response. 2 GetRequestStream 3 [C#] public override Stream GetRequestStream(); 5 [C++] public: Stream* GetRequestStream(); 6 [VB] Overrides Public Function GetRequestStream() As Stream 7 [JScript] public override function GetRequestStream(): Stream; 8 Description 10 Returns a System.IO.Stream instance for writing data to the file system 11 resource. 12 Return Value: A System.IO.Stream for writing data to the file system resource. 13 The System.Net.FileWebRequest.GetRequestStream method returns a 14 System.IO.Stream instance for writing data to the file system resource. 15 GetResponse 16 17 [C#] public override WebResponse GetResponse(); 18 [C++] public: WebResponse* GetResponse(); 19 [VB] Overrides Public Function GetResponse() As WebResponse 20 [JScript] public override function GetResponse(): WebResponse; 21 22 Description 23 24 25

Returns a response to a file system request.

Return Value: A System.Net.WebResponse that contains the response from the file system resource.

The System.Net.FileWebRequest.GetResponse method returns a System.Net.WebResponse instance containing the response from the file system

ISerializable.GetObjectData

[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo, StreamingContext streamingContext);

[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo, StreamingContext streamingContext);

[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal streamingContext As StreamingContext) Implements ISerializable.GetObjectData $[JScript]\ function\ ISerializable. Get Object Data (serialization Info: Serialization Info, the context of t$ streamingContext: StreamingContext);

FileWebResponse class (System.Net)

ToString

Description

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Provides a file system implementation of the System.Net.WebResponse class.

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The System.Net.FileWebResponse class implements the System.Net.WebResponseabstract base class to return file system resources for the System.Net.FileWebRequest class. FileWebResponse Example Syntax: **ToString** [C#] protected FileWebResponse(SerializationInfo serializationInfo, StreamingContext streamingContext); [C++] protected: FileWebResponse(SerializationInfo* serializationInfo, StreamingContext streamingContext); [VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal streamingContext As StreamingContext) [JScript] protected function FileWebResponse(serializationInfo : SerializationInfo, streamingContext: StreamingContext); Description Initializes a new instance of the System.Net.FileWebResponse class from the specified instances of the System.Runtime.Serialization.SerializationInfo and System.Runtime.Serialization.StreamingContext classes. This constructor implements the System.Runtime.Serialization.ISerializable interface for the System.Net.FileWebResponse class. A

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information required to serialize the new System.Net.FileWebResponse instance.

System.Runtime.Serialization.SerializationInfo instance that contains the

1	An instance of the System.Runtime.Serialization.StreamingContext class that
2	contains the source of the serialized stream associated with the new
3	System.Net.FileWebResponse instance.
4	ContentLength
5	ToString
6	
7	[C#] public override long ContentLength {get;}
8	[C++] public:property virtualint64 get_ContentLength();
9	[VB] Overrides Public ReadOnly Property ContentLength As Long
10	[JScript] public function get ContentLength(): long;
11	
12	Description
13	Gets the length of the content in the file system resource.
14	The System.Net.FileWebResponse.ContentLength property contains the
15	length, in bytes, of the file system resource.
16	ContentType
17	ToString
18	
19	[C#] public override string ContentType {get;}
20	[C++] public:property virtual String* get_ContentType();
21	[VB] Overrides Public ReadOnly Property ContentType As String
22	[JScript] public function get ContentType() : String;
23	
24	Description
25	Gets the content type of the file system resource.

The System.Net.FileWebResponse.ContentType property contains the 1 content type of the file system resource. The value of 2 System.Net.FileWebResponse.ContentType is always "binary/octet-stream". 3 Headers 4 **ToString** 5 6 [C#] public override WebHeaderCollection Headers {get;} 7 [C++] public: __property virtual WebHeaderCollection* get_Headers(); 8 [VB] Overrides Public ReadOnly Property Headers As WebHeaderCollection 9 [JScript] public function get Headers(): WebHeaderCollection; 10 11 Description 12 Gets a collection of header name/value pairs associated with the response. 13 The System.Net.FileWebResponse.Headers property contains two 14 name/value pairs, one for content length and one for content type, both of which 15 are also exposed as properties, System.Net.FileWebResponse.ContentLength 16 and ${\bf System.Net.FileWebResponse.ContentType}$. 17 ResponseUri 18 **ToString** 19 20 [C#] public override Uri ResponseUri {get;} 21 [C++] public: __property virtual Uri* get_ResponseUri(); 22 [VB] Overrides Public ReadOnly Property ResponseUri As Uri 23 [JScript] public function get ResponseUri(): Uri; 24 25

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Description

Gets the URI of the file system resource that provided the response.

The System.Net.FileWebResponse.ResponseUri property contains the URI of the file system resource that provided the response. This is always the file system resource that was requested.

Close

[C#] public override void Close();

[C++] public: void Close();

[VB] Overrides Public Sub Close()

[JScript] public override function Close();

Description

Closes the response stream.

The System.Net.FileWebResponse.Close method cleans up the resources used by a System.Net.FileWebResponse and closes the response stream by calling the **System.IO.Stream.Close** method.

Dispose

[C#] protected virtual void Dispose(bool disposing);

[C++] protected: virtual void Dispose(bool disposing);

[VB] Overridable Protected Sub Dispose(ByVal disposing As Boolean)

[JScript] protected function Dispose(disposing : Boolean);

GetResponseStream

11	
1	
2	[C#] public override Stream GetResponseStream();
3	[C++] public: Stream* GetResponseStream();
4	[VB] Overrides Public Function GetResponseStream() As Stream
5	[JScript] public override function GetResponseStream(): Stream;
6	
7	Description
8	Returns the data stream from the file system resource.
9	Return Value: A System.IO.Stream for reading data from the file system
10	resource.
11	The System.Net.FileWebResponse.GetResponseStream method returns
12	the data stream from the file system resource.
13	IDisposable.Dispose
14	
15	[C#] void IDisposable.Dispose();
16	[C++] void IDisposable::Dispose();
17	[VB] Sub Dispose() Implements IDisposable.Dispose
18	[JScript] function IDisposable.Dispose();
19	ISerializable.GetObjectData
20	
21	[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,
22	StreamingContext streamingContext);
23	[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,
24	StreamingContext streamingContext);
25	[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal
	••

1	streamingContext As StreamingContext) Implements ISerializable.GetObjectData
2	[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo,
3	streamingContext : StreamingContext);
4	GlobalProxySelection class (System.Net)
5	ToString
6	
7	
8	Description
9	Contains a global default proxy instance for all HTTP requests.
10	The System.Net.GlobalProxySelection stores the proxy settings for the
11	default proxy that System.Net.WebRequest instances use to contact Internet sites
12	beyond the local network. The default proxy setting is initialized from the global
13	or application configuration file, and can be overridden for individual requests, or
14	disabled by setting the System.Net.HttpWebRequest.Proxy property to the result
15	of the System.Net.GlobalProxySelection.GetEmptyWebProxy method.
16	GlobalProxySelection
17	Example Syntax:
18	ToString
19	
20	[C#] public GlobalProxySelection();
21	[C++] public: GlobalProxySelection();
22	[VB] Public Sub New()
23	[JScript] public function GlobalProxySelection();
24	Select
25	ToString

25

to access an Internet resource.

[C#] public static IWebProxy Select {get; set;} [C++] public: __property static IWebProxy* get_Select();public: __property static void set Select(IWebProxy*); 4 [VB] Public Shared Property Select As IWebProxy 5 [JScript] public static function get Select(): IWebProxy;public static function set 6 Select(IWebProxy); 7 8 Description 9 Gets or sets the global HTTP proxy. 10 The System.Net.GlobalProxySelection.Select method sets the proxy that 11 all System.Net.HttpWebRequest instances use. 12 GetEmptyWebProxy 13 14 [C#] public static IWebProxy GetEmptyWebProxy(); 15 [C++] public: static IWebProxy* GetEmptyWebProxy(); 16 [VB] Public Shared Function GetEmptyWebProxy() As IWebProxy 17 [JScript] public static function GetEmptyWebProxy(): IWebProxy; 18 19 Description 20 Returns an empty proxy instance. 21 Return Value: An System.Net.IWebProxy that contains no information. 22 The System.Net.GlobalProxySelection.GetEmptyWebProxy method 23 returns a blank System.Net.IWebProxy instance to indicate that no proxy is used

1	HttpContinueDelegate delegate (System.Net)
2	ToString
3	
4	
5	Description
6	Represents the method that notifies callers when a continue response is
7	received by the client. The numeric value of the HTTP status from the server. The
8	headers returned with the 100-continue response from the server.
9	Use System.Net.HttpContinueDelegate to specify the callback method to
10	be called when an HTTP 100-continue response is received from the server. When
11	set, the delegate is called whenever protocol responses of type
12	System.Net.HttpStatusCode.Continue are received.
13	HttpStatusCode enumeration (System.Net)
14	ToString
15	
16	
17	Description
18	Contains the values of status codes defined for HTTP.
19	The System.Net.HttpStatusCode enumeration contains the values of the
20	status codes defined in RFC 2616 for HTTP 1.1.
21	ToString
22	
23	[C#] public const HttpStatusCode Accepted;
24	[C++] public: const HttpStatusCode Accepted;
25	[VB] Public Const Accepted As HttpStatusCode

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1	[JScript] public var Accepted : HttpStatusCode;
2	
3	Description
4	Equivalent to HTTP status 202.
5	ToString
6	
7	[C#] public const HttpStatusCode Ambiguous;
8	[C++] public: const HttpStatusCode Ambiguous;
9	[VB] Public Const Ambiguous As HttpStatusCode
10	[JScript] public var Ambiguous : HttpStatusCode;
11	
12	Description
13	Equivalent to HTTP status 300.
14	ToString
15	
16	[C#] public const HttpStatusCode BadGateway;
17	[C++] public: const HttpStatusCode BadGateway;
18	[VB] Public Const BadGateway As HttpStatusCode
19	[JScript] public var BadGateway : HttpStatusCode;
20	
21	Description
22	Equivalent to HTTP status 502.
23	ToString
24	
25	[C#] public const HttpStatusCode BadRequest;

1	[C++] public: const HttpStatusCode BadRequest;
2	[VB] Public Const BadRequest As HttpStatusCode
3	[JScript] public var BadRequest : HttpStatusCode;
4	
5	Description
6	Equivalent to HTTP status 400.
7	ToString
8	
9	[C#] public const HttpStatusCode Conflict;
10	[C++] public: const HttpStatusCode Conflict;
11	[VB] Public Const Conflict As HttpStatusCode
12	[JScript] public var Conflict : HttpStatusCode;
13	
14	Description
15	Equivalent to HTTP status 409.
16	ToString
17	
18	[C#] public const HttpStatusCode Continue;
19	[C++] public: const HttpStatusCode Continue;
20	[VB] Public Const Continue As HttpStatusCode
21	[JScript] public var Continue : HttpStatusCode;
22	
23	Description
24	Equivalent to HTTP status 100.
25	ToString

1	
2	[C#] public const HttpStatusCode Created;
3	[C++] public: const HttpStatusCode Created;
4	[VB] Public Const Created As HttpStatusCode
5	[JScript] public var Created : HttpStatusCode;
6	
7	Description
8	Equivalent to HTTP status 201.
9	ToString
10	
11	[C#] public const HttpStatusCode ExpectationFailed;
12	[C++] public: const HttpStatusCode ExpectationFailed;
13	[VB] Public Const ExpectationFailed As HttpStatusCode
14	[JScript] public var ExpectationFailed : HttpStatusCode;
15	
16	Description
17	Equivalent to HTTP status 417.
18	ToString
19	
20	[C#] public const HttpStatusCode Forbidden;
21	[C++] public: const HttpStatusCode Forbidden;
22	[VB] Public Const Forbidden As HttpStatusCode
23	[JScript] public var Forbidden : HttpStatusCode;
24	
25	Description

1	Equivalent to HTTP status 403.
2	ToString
3	
4	[C#] public const HttpStatusCode Found;
5	[C++] public: const HttpStatusCode Found;
6	[VB] Public Const Found As HttpStatusCode
7	[JScript] public var Found : HttpStatusCode;
8	
9	Description
10	Equivalent to HTTP status 302.
11	ToString
12	
13	[C#] public const HttpStatusCode GatewayTimeout;
14	[C++] public: const HttpStatusCode GatewayTimeout;
15	[VB] Public Const GatewayTimeout As HttpStatusCode
16	[JScript] public var GatewayTimeout : HttpStatusCode;
17	
18	Description
19	Equivalent to HTTP status 504.
20	ToString
21	
22	[C#] public const HttpStatusCode Gone;
23	[C++] public: const HttpStatusCode Gone;
24	[VB] Public Const Gone As HttpStatusCode
25	[JScript] public var Gone : HttpStatusCode;

11	
1	
2	Description
3	Equivalent to HTTP status 410.
4	ToString
5	
6	[C#] public const HttpStatusCode HttpVersionNotSupported;
7	[C++] public: const HttpStatusCode HttpVersionNotSupported;
8	[VB] Public Const HttpVersionNotSupported As HttpStatusCode
9	[JScript] public var HttpVersionNotSupported : HttpStatusCode;
10	
11	Description
12	Equivalent to HTTP status 505.
13	ToString
14	
15	[C#] public const HttpStatusCode InternalServerError;
16	[C++] public: const HttpStatusCode InternalServerError;
17	[VB] Public Const InternalServerError As HttpStatusCode
18	[JScript] public var InternalServerError : HttpStatusCode;
19	
20	Description
21	Equivalent to HTTP status 500.
22	ToString
23	
24	[C#] public const HttpStatusCode LengthRequired;
25	[C++] public: const HttpStatusCode LengthRequired:

1	[VB] Public Const LengthRequired As HttpStatusCode
2	[JScript] public var LengthRequired : HttpStatusCode;
3	
4	Description
5	Equivalent to HTTP status 411.
6	ToString
7	
8	[C#] public const HttpStatusCode MethodNotAllowed;
9	[C++] public: const HttpStatusCode MethodNotAllowed;
10	[VB] Public Const MethodNotAllowed As HttpStatusCode
11	[JScript] public var MethodNotAllowed : HttpStatusCode;
12	
13	Description
14	Equivalent to HTTP status 405.
15	ToString
16	
17	[C#] public const HttpStatusCode Moved;
18	[C++] public: const HttpStatusCode Moved;
19	[VB] Public Const Moved As HttpStatusCode
20	[JScript] public var Moved: HttpStatusCode;
21	
22	Description
23	Equivalent to HTTP status 301.
24	ToString
25	

	1
1	
2	[C#] public const HttpStatusCode MovedPermanently;
3	[C++] public: const HttpStatusCode MovedPermanently;
4	[VB] Public Const MovedPermanently As HttpStatusCode
5	[JScript] public var MovedPermanently: HttpStatusCode;
6	
7	Description
8	Equivalent to HTTP status 301.
9	ToString
10	
11	[C#] public const HttpStatusCode MultipleChoices;
12	[C++] public: const HttpStatusCode MultipleChoices;
13	[VB] Public Const MultipleChoices As HttpStatusCode
14	[JScript] public var MultipleChoices : HttpStatusCode;
15	
16	Description
17	Equivalent to HTTP status 300.
18	ToString
19	
20	[C#] public const HttpStatusCode NoContent;
21	[C++] public: const HttpStatusCode NoContent;
22	[VB] Public Const NoContent As HttpStatusCode
23	[JScript] public var NoContent : HttpStatusCode;
24	
25	Description

1	Equivalent to HTTP status 204.
2	ToString
3	
4	[C#] public const HttpStatusCode NonAuthoritativeInformation;
5	[C++] public: const HttpStatusCode NonAuthoritativeInformation;
6	[VB] Public Const NonAuthoritativeInformation As HttpStatusCode
7	[JScript] public var NonAuthoritativeInformation : HttpStatusCode;
8	
9	Description
10	Equivalent to HTTP status 203.
11	ToString
12	
13	[C#] public const HttpStatusCode NotAcceptable;
14	[C++] public: const HttpStatusCode NotAcceptable;
15	[VB] Public Const NotAcceptable As HttpStatusCode
16	[JScript] public var NotAcceptable : HttpStatusCode;
17	
18	Description
19	Equivalent to HTTP status 406.
20	ToString
21	
22	[C#] public const HttpStatusCode NotFound;
23	[C++] public: const HttpStatusCode NotFound;
24	[VB] Public Const NotFound As HttpStatusCode
25	[IScript] public var NotFound · HttpStatusCode·

1	
2	Description
3	Equivalent to HTTP status 404.
4	ToString
5	
6	[C#] public const HttpStatusCode NotImplemented;
7	[C++] public: const HttpStatusCode NotImplemented;
8	[VB] Public Const NotImplemented As HttpStatusCode
9	[JScript] public var NotImplemented : HttpStatusCode;
10	
11	Description
12	Equivalent to HTTP status 501.
13	ToString
14	
15	[C#] public const HttpStatusCode NotModified;
16	[C++] public: const HttpStatusCode NotModified;
17	[VB] Public Const NotModified As HttpStatusCode
18	[JScript] public var NotModified : HttpStatusCode;
19	
20	Description
21	Equivalent to HTTP status 304.
22	ToString
23	
24	[C#] public const HttpStatusCode OK;
25	[C++] public: const HttpStatusCode OK:

1	[VB] Public Const OK As HttpStatusCode
2	[JScript] public var OK : HttpStatusCode;
3	
4	Description
5	Equivalent to HTTP status 200.
6	ToString
7	
8	[C#] public const HttpStatusCode PartialContent;
9	[C++] public: const HttpStatusCode PartialContent;
10	[VB] Public Const PartialContent As HttpStatusCode
11	[JScript] public var PartialContent : HttpStatusCode;
12	
13	Description
14	Equivalent to HTTP status 206.
15	ToString
16	
17	[C#] public const HttpStatusCode PaymentRequired;
18	[C++] public: const HttpStatusCode PaymentRequired;
19	[VB] Public Const PaymentRequired As HttpStatusCode
20	[JScript] public var PaymentRequired : HttpStatusCode;
21	
22	Description
23	Equivalent to HTTP status 402.
24	ToString
25	

1	
2	[C#] public const HttpStatusCode PreconditionFailed;
3	[C++] public: const HttpStatusCode PreconditionFailed;
4	[VB] Public Const PreconditionFailed As HttpStatusCode
5	[JScript] public var PreconditionFailed : HttpStatusCode;
6	
7	Description
8	Equivalent to HTTP status 412.
9	ToString
10	
11	[C#] public const HttpStatusCode ProxyAuthenticationRequired;
12	[C++] public: const HttpStatusCode ProxyAuthenticationRequired;
13	[VB] Public Const ProxyAuthenticationRequired As HttpStatusCode
14	[JScript] public var ProxyAuthenticationRequired : HttpStatusCode;
15	
16	Description
17	Equivalent to HTTP status 407.
18	ToString
19	
20	[C#] public const HttpStatusCode Redirect;
21	[C++] public: const HttpStatusCode Redirect;
22	[VB] Public Const Redirect As HttpStatusCode
23	[JScript] public var Redirect : HttpStatusCode;
24	
25	Description

1	Equivalent to HTTP status 302.
2	ToString
3	
4	[C#] public const HttpStatusCode RedirectKeepVerb;
5	[C++] public: const HttpStatusCode RedirectKeepVerb;
6	[VB] Public Const RedirectKeepVerb As HttpStatusCode
7	[JScript] public var RedirectKeepVerb : HttpStatusCode;
8	
9	Description
10	Equivalent to HTTP status 307.
11	ToString
12	
13	[C#] public const HttpStatusCode RedirectMethod;
14	[C++] public: const HttpStatusCode RedirectMethod;
15	[VB] Public Const RedirectMethod As HttpStatusCode
16	[JScript] public var RedirectMethod : HttpStatusCode;
17	
18	Description
19	Equivalent to HTTP status 303.
20	ToString
21	
22	[C#] public const HttpStatusCode RequestedRangeNotSatisfiable;
23	[C++] public: const HttpStatusCode RequestedRangeNotSatisfiable;
24	[VB] Public Const RequestedRangeNotSatisfiable As HttpStatusCode
25	[JScript] public var RequestedRangeNotSatisfiable : HttpStatusCode;

1	
2	Description
3	Equivalent to HTTP status 416.
4	ToString
5	
6	[C#] public const HttpStatusCode RequestEntityTooLarge;
	[C++] public: const HttpStatusCode RequestEntityTooLarge;
7	[VB] Public Const RequestEntityTooLarge As HttpStatusCode
8	
9	[JScript] public var RequestEntityTooLarge : HttpStatusCode;
10	
11	Description
12	Equivalent to HTTP status 413.
13	ToString
14	
15	[C#] public const HttpStatusCode RequestTimeout;
16	[C++] public: const HttpStatusCode RequestTimeout;
17	[VB] Public Const RequestTimeout As HttpStatusCode
18	[JScript] public var RequestTimeout : HttpStatusCode;
19	
20	Description
21	Equivalent to HTTP status 408.
22	ToString
23	
24	[C#] public const HttpStatusCode RequestUriTooLong;
25	[C++] public: const HttpStatusCode RequestUriTooLong;

1	[VB] Public Const RequestUriTooLong As HttpStatusCode
2	[JScript] public var RequestUriTooLong : HttpStatusCode;
3	
4	Description
5	Equivalent to HTTP status 414.
6	ToString
7	
8	[C#] public const HttpStatusCode ResetContent;
9	[C++] public: const HttpStatusCode ResetContent;
10	[VB] Public Const ResetContent As HttpStatusCode
11	[JScript] public var ResetContent : HttpStatusCode;
12	
13	Description
14	Equivalent to HTTP status 205.
15	ToString
16	
17	[C#] public const HttpStatusCode SeeOther;
18	[C++] public: const HttpStatusCode SeeOther;
19	[VB] Public Const SeeOther As HttpStatusCode
20	[JScript] public var SeeOther : HttpStatusCode;
21	
22	Description
23	Equivalent to HTTP status 303.
24	ToString
25	

1	
2	[C#] public const HttpStatusCode ServiceUnavailable;
3	[C++] public: const HttpStatusCode ServiceUnavailable;
4	[VB] Public Const ServiceUnavailable As HttpStatusCode
5	[JScript] public var ServiceUnavailable : HttpStatusCode;
6	
7	Description
8	Equivalent to HTTP status 503.
9	ToString
10	
11	[C#] public const HttpStatusCode SwitchingProtocols;
12	[C++] public: const HttpStatusCode SwitchingProtocols;
13	[VB] Public Const SwitchingProtocols As HttpStatusCode
14	[JScript] public var SwitchingProtocols : HttpStatusCode;
15	
16	Description
17	Equivalent to HTTP status 101.
18	ToString
19	
20	[C#] public const HttpStatusCode TemporaryRedirect;
21	[C++] public: const HttpStatusCode TemporaryRedirect;
22	[VB] Public Const TemporaryRedirect As HttpStatusCode
23	[JScript] public var TemporaryRedirect : HttpStatusCode;
24	
25	Description

1	Equivalent to HTTP status 307.
2	ToString
3	
4	[C#] public const HttpStatusCode Unauthorized;
5	[C++] public: const HttpStatusCode Unauthorized;
6	[VB] Public Const Unauthorized As HttpStatusCode
7	[JScript] public var Unauthorized : HttpStatusCode;
8	
9	Description
10	Equivalent to HTTP status 401.
11	ToString
12	
13	[C#] public const HttpStatusCode UnsupportedMediaType;
14	[C++] public: const HttpStatusCode UnsupportedMediaType;
15	[VB] Public Const UnsupportedMediaType As HttpStatusCode
16	[JScript] public var UnsupportedMediaType : HttpStatusCode;
17	
18	Description
19	Equivalent to HTTP status 415.
20	ToString
21	
22	[C#] public const HttpStatusCode Unused;
23	[C++] public: const HttpStatusCode Unused;
24	[VB] Public Const Unused As HttpStatusCode
25	[JScript] public var Unused : HttpStatusCode;

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Equivalent to HTTP status 306.

ToString

[C#] public const HttpStatusCode UseProxy;

[C++] public: const HttpStatusCode UseProxy;

[VB] Public Const UseProxy As HttpStatusCode

[JScript] public var UseProxy: HttpStatusCode;

Description

Equivalent to HTTP status 305.

HttpVersion class (System.Net)

ToString

Description

Defines the HTTP version numbers supported by the System.Net.HttpWebRequest and System.Net.HttpWebResponse classes.

The **System.Net.HttpVersion** class defines the HTTP versions supported by the **System.Net.HttpWebRequest** and **System.Net.HttpWebResponse** classes. The HTTP version number is used to control version-specific features of HTTP, such as pipelining and chunking.

ToString

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```
1
    [C#] public static readonly Version Version10;
2
    [C++] public: static Version* Version10;
3
    [VB] Public Shared ReadOnly Version10 As Version
    [JScript] public static var Version10 : Version;
    Description
7
           Defines a System.Version instance for HTTP 1.0.
8
           ToString
10
    [C#] public static readonly Version Version11;
11
    [C++] public: static Version* Version11;
12
    [VB] Public Shared ReadOnly Version11 As Version
13
    [JScript] public static var Version11 : Version;
14
15
    Description
16
           Defines a System.Version instance for HTTP 1.1.
17
           HttpVersion
18
           Example Syntax:
19
           ToString
20
21
    [C#] public HttpVersion();
22
    [C++] public: HttpVersion();
23
    [VB] Public Sub New()
24
    [JScript] public function HttpVersion();
```

HttpWebRequest class (System.Net) 1 **ToString** 2 3 Description Provides an HTTP-specific implementation of the 6 System.Net.WebRequest class. The System.Net.HttpWebRequest class provides support for the 8 properties and methods defined in System.Net.WebRequest and for additional properties and methods that enable the user to interact directly with servers using 10 HTTP. 11 HttpWebRequest 12 Example Syntax: 13 **ToString** 14 15 [C#] protected HttpWebRequest(SerializationInfo serializationInfo, 16 StreamingContext streamingContext); 17 [C++] protected: HttpWebRequest(SerializationInfo* serializationInfo, 18 StreamingContext streamingContext); [VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal 20 streamingContext As StreamingContext) 21 [JScript] protected function HttpWebRequest(serializationInfo: SerializationInfo, 22 streamingContext : StreamingContext); 23 24 Description

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Initializes a new instance of the System.Net.HttpWebRequest class from the specified instances of the System.Runtime.Serialization.SerializationInfo and System.Runtime.Serialization.StreamingContext classes.

This constructor implements the

System.Runtime.Serialization.ISerializable interface for the

System.Net.HttpWebRequest class. A

System.Runtime.Serialization.SerializationInfo instance containing the information required to serialize the new System.Net.HttpWebRequest instance.

A System.Runtime.Serialization.StreamingContext instance containing the source and destination of the serialized stream associated with the new System.Net.HttpWebRequest instance.

Accept

ToString

[C#] public string Accept {get; set;}

[C++] public: __property String* get_Accept();public: __property void

set Accept(String*);

[VB] Public Property Accept As String

[JScript] public function get Accept(): String; public function set Accept(String);

Description

Gets or sets the value of the Accept HTTP header.

Address

ToString

```
1
    [C#] public Uri Address {get;}
2
    [C++] public: property Uri* get_Address();
3
    [VB] Public ReadOnly Property Address As Uri
    [JScript] public function get Address(): Uri;
5
6
    Description
7
           Gets the URI of the Internet resource that actually responds to the request.
8
           The System.Net.HttpWebRequest.Address property is set to the URI that
9
    actually responds to a request, after any redirections that might happen during the
10
    request are complete.
11
           AllowAutoRedirect
12
           ToString
13
14
    [C#] public bool AllowAutoRedirect {get; set;}
15
    [C++] public: __property bool get_AllowAutoRedirect();public: __property void
16
    set AllowAutoRedirect(bool);
17
    [VB] Public Property Allow Auto Redirect As Boolean
18
    [JScript] public function get AllowAutoRedirect(): Boolean; public function set
19
    AllowAutoRedirect(Boolean);
20
21
    Description
22
            Gets or sets a value that indicates whether the request should follow
23
    redirection responses.
24
```

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Set System.Net.HttpWebRequest.AllowAutoRedirect to true if you want the request to automatically follow HTTP redirection headers to the new location of the resource. The maximum number of redirections to follow is set by the System.Net.HttpWebRequest.MaximumAutomaticRedirections property.

AllowWriteStreamBuffering

ToString

[C#] public bool AllowWriteStreamBuffering {get; set;}

[C++] public: __property bool get_AllowWriteStreamBuffering();public:

property void set_AllowWriteStreamBuffering(bool);

[VB] Public Property AllowWriteStreamBuffering As Boolean

[JScript] public function get AllowWriteStreamBuffering(): Boolean;public

function set AllowWriteStreamBuffering(Boolean);

Description

Gets or sets a value that indicates whether to buffer the data sent to the Internet resource.

When System.Net.HttpWebRequest.AllowWriteStreamBuffering is true, the data is buffered in memory so it is ready to be resent in the event of redirections or authentication requests.

ClientCertificates

ToString

[C#] public X509CertificateCollection ClientCertificates {get;}

[C++] public: __property X509CertificateCollection* get_ClientCertificates();

1	[VB] Public ReadOnly Property ClientCertificates As X509CertificateCollection
2	[JScript] public function get ClientCertificates(): X509CertificateCollection;
3	
4	Description
5	Gets the collection of security certificates associated with this request.
6	Connection
7	ToString
8	
9	[C#] public string Connection {get; set;}
10	[C++] public:property String* get_Connection();public:property void
11	set_Connection(String*);
12	[VB] Public Property Connection As String
13	[JScript] public function get Connection(): String; public function set
14	Connection(String);
15	
16	Description
17	Gets or sets the value of the Connection HTTP header.
18	The request sends the System.Net.HttpWebRequest.Connection property
19	to the Internet resource as the Connection HTTP header. If
20	System.Net.HttpWebRequest.KeepAlive is true, the value "Keep-alive" is
21	appended to the end of the Connection header.
22	ConnectionGroupName
23	ToString
24	
25	[C#] public override string ConnectionGroupName {get; set;}

```
[C++] public: property virtual String* get_ConnectionGroupName();public:
1
      property virtual void set ConnectionGroupName(String*);
2
    [VB] Overrides Public Property ConnectionGroupName As String
3
    [JScript] public function get ConnectionGroupName(): String;public function set
    ConnectionGroupName(String);
5
6
    Description
7
           Gets or sets the name of the connection group for the request.
8
           The \ System. Net. Http Web Request. Connection Group Name\ property
9
    enables you to associate a request with a connection group. This is useful when
10
    your application makes requests to one server for different users, such as a Web
11
    site that retrieves customer information from a database server.
12
           ContentLength
13
           ToString
14
15
    [C#] public override long ContentLength {get; set;}
16
    [C++] public: __property virtual _ int64 get_ContentLength();public: __property
17
    virtual void set ContentLength( int64);
18
    [VB] Overrides Public Property ContentLength As Long
19
    [JScript] public function get ContentLength(): long;public function set
20
    ContentLength(long);
21
22
    Description
23
           Gets or sets the Content-length HTTP header.
24
```

1 The System.Net.HttpWebRequest.ContentLength property contains the value to send as the Content-length HTTP header with the request. 2 ContentType 3 **ToString** 5 [C#] public override string ContentType {get; set;} 6 [C++] public: property virtual String* get ContentType();public: property 7 virtual void set ContentType(String*); 8 [VB] Overrides Public Property ContentType As String 9 [JScript] public function get ContentType(): String; public function set 10 ContentType(String); 11 12 Description 13 Gets or sets the value of the Content-type HTTP header. 14 The System.Net.HttpWebRequest.ContentType property contains the 15 media type of the request. Values assigned to the 16 System.Net.HttpWebRequest.ContentType property replace any existing 17 contents when the request sends the Content-type HTTP header. 18 ContinueDelegate 19 **ToString** 20 21 [C#] public HttpContinueDelegate ContinueDelegate {get; set;} 22 [C++] public: __property HttpContinueDelegate* get_ContinueDelegate();public: 23 property void set ContinueDelegate(HttpContinueDelegate*); 24 [VB] Public Property ContinueDelegate As HttpContinueDelegate

[JScript] public function get ContinueDelegate(): HttpContinueDelegate; public function set ContinueDelegate(HttpContinueDelegate); 2 3 Description 4 Gets or sets the delegate method called when an HTTP 100-continue 5 response is received from the Internet resource. 6 The System.Net.HttpWebRequest.ContinueDelegate property specifies 7 the callback method to call when the client receives a 100-Continue response. 8 CookieContainer 9 **ToString** 10 11 [C#] public CookieContainer CookieContainer {get; set;} 12 [C++] public: __property CookieContainer* get_CookieContainer();public: 13 _property void set_CookieContainer(CookieContainer*); 14 [VB] Public Property CookieContainer As CookieContainer 15 [JScript] public function get CookieContainer(): CookieContainer; public function 16 set CookieContainer(CookieContainer); 17 18 Description 19 Gets or sets the cookies associated with the request. 20 The System.Net.HttpWebRequest.CookieContainer property provides an 21 instance of the System.Net.CookieContainer class that contains the cookies 22 associated with this request. 23 Credentials 24 **ToString** 25

```
[C#] public override ICredentials Credentials {get; set;}

[C++] public: __property virtual ICredentials* get_Credentials();public: __property virtual void set_Credentials(ICredentials*);

[VB] Overrides Public Property Credentials As ICredentials

[JScript] public function get Credentials(): ICredentials;public function set Credentials(ICredentials);

Description

Provides authentication information for the request.
```

The System.Net.HttpWebRequest.Credentials property contains authentication information to identify the maker of the request. The System.Net.HttpWebRequest.Credentials property can be either an instance of System.Net.NetworkCredential, in which case the user, password, and domain information contained in the System.Net.NetworkCredential instance is used to authenticate the request, or it can be an instance of System.Net.CredentialCache, in which case the uniform resource identifier (URI) of the request is used to determine the user, password, and domain information to use to authenticate the request.

Expect

ToString

[C#] public string Expect {get; set;}

[C++] public: __property String* get_Expect();public: __property void
set Expect(String*);

1	[VB] Public Property Expect As String
2	[JScript] public function get Expect(): String; public function set Expect(String);
3	
4	Description
5	Gets or sets the value of the Expect HTTP header.
6	By default, System.Net.HttpWebRequest.Expect is set to "100-continue
7	You can add other values to the list that System.Net.HttpWebRequest.Expect
8	maintains, or you can delete all values except "100-continue" from the list by
9	setting System.Net.HttpWebRequest.Expect to null.
10	HaveResponse
11	ToString
12	
13	[C#] public bool HaveResponse {get;}
14	·[C++] public:property bool get_HaveResponse();
15	[VB] Public ReadOnly Property HaveResponse As Boolean
16	[JScript] public function get HaveResponse(): Boolean;
17	
18	Description
19	Gets a value indicating whether a response has been received from an
20	Internet resource.
21	Headers
22	ToString
23	
24	[C#] public override WebHeaderCollection Headers {get; set;}
25	[C++] public:property virtual WebHeaderCollection* get_Headers();public:

1	property virtual void set_Headers(WebHeaderCollection*);
2	[VB] Overrides Public Property Headers As WebHeaderCollection
3	[JScript] public function get Headers(): WebHeaderCollection; public function set
4	Headers(WebHeaderCollection);
5	
6	Description
7	Gets a collection of the name/value pairs that make up the HTTP headers.
8	The System.Net.HttpWebRequest.Headers collection contains the
9	protocol headers associated with the request. The following table lists the HTTP
10	headers that are not stored in the System.Net.HttpWebRequest.Headers
11	collection but are either set by the system or set by properties or methods.
12	IfModifiedSince
13	ToString
14	
15	[C#] public DateTime IfModifiedSince {get; set;}
16	[C++] public:property DateTime get_IfModifiedSince();public:property
17	void set_IfModifiedSince(DateTime);
18	[VB] Public Property IfModifiedSince As DateTime
19	[JScript] public function get IfModifiedSince() : DateTime;public function set
20	IfModifiedSince(DateTime);
21	
22	Description
23	Gets or sets the value of the If-Modified-Since HTTP header.
24	KeepAlive
25	ToString

1	
2	[C#] public bool KeepAlive {get; set;}
3	[C++] public:property bool get_KeepAlive();public:property void
4	set_KeepAlive(bool);
5	[VB] Public Property KeepAlive As Boolean
6	[JScript] public function get KeepAlive(): Boolean; public function set
7	KeepAlive(Boolean);
8	
9	Description
10	Gets or sets a value indicating whether to make a persistent connection to
11	the Internet resource.
12	Set this property to true to send an Connection HTTP header with the
13	value Keep-alive. An application uses System.Net.HttpWebRequest.KeepAlive
14	to indicate a preference for persistent connections. When the
15	System.Net.HttpWebRequest.KeepAlive property is true, the application
16	makes persistent connections to the servers that support them.
17	MaximumAutomaticRedirections
18	ToString
19	
20	[C#] public int MaximumAutomaticRedirections {get; set;}
21	[C++] public:property int get_MaximumAutomaticRedirections();public:
22	property void set_MaximumAutomaticRedirections(int);
23	[VB] Public Property MaximumAutomaticRedirections As Integer
24	[JScript] public function get MaximumAutomaticRedirections(): int;public
25	function set MaximumAutomaticRedirections(int);

Description

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Gets or sets the maximum number of redirects that the request will follow.

The System.Net.HttpWebRequest.MaximumAutomaticRedirections method property sets the maximum number of redirections for the request to follow if the System.Net.HttpWebRequest.AllowAutoRedirect property is true

MediaType

ToString

[C#] public string MediaType {get; set;}

[C++] public: __property String* get_MediaType();public: __property void set MediaType(String*);

[VB] Public Property MediaType As String

[JScript] public function get MediaType() : String;public function set MediaType(String);

Description

Gets or sets the media type of the request.

The value of the **System.Net.HttpWebRequest.MediaType** property affects the **System.Net.HttpWebResponse.CharacterSet** property. When you set the **System.Net.HttpWebRequest.MediaType** in the request, the corresponding media type is chosen from the list of character sets returned in the response **Content-type** HTTP header.

Method

1	ToString
2	
3	[C#] public override string Method {get; set;}
4	[C++] public:property virtual String* get_Method();public:property virtual
5	<pre>void set_Method(String*);</pre>
6	[VB] Overrides Public Property Method As String
7	[JScript] public function get Method(): String; public function set Method(String);
8	
9	Description
10	Gets or sets the method for the request.
11	The System.Net.HttpWebRequest.Method property can be set to any of
12	the HTTP 1.1 protocol verbs: GET, HEAD, POST, PUT, DELETE, TRACE, or
13	OPTIONS.
14	Pipelined
15	ToString
16	
17	[C#] public bool Pipelined {get; set;}
18	[C++] public:property bool get_Pipelined();public:property void
19	set_Pipelined(bool);
20	[VB] Public Property Pipelined As Boolean
21	[JScript] public function get Pipelined(): Boolean; public function set
22	Pipelined(Boolean);
23	
24	Description
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Gets or sets a value indicating whether to pipeline the request to the Internet resource.

An application uses the **System.Net.HttpWebRequest.Pipelined** property to indicate a preference for pipelined connections. When **System.Net.HttpWebRequest.Pipelined** is **true**, an application makes pipelined connections to the servers that support them.

PreAuthenticate

ToString

[C#] public override bool PreAuthenticate {get; set;}

[C++] public: __property virtual bool get_PreAuthenticate();public: __property virtual void set PreAuthenticate(bool);

[VB] Overrides Public Property PreAuthenticate As Boolean

[IScript] public function get PreAuthenticate(): Roolean public

[JScript] public function get PreAuthenticate() : Boolean; public function set PreAuthenticate(Boolean);

Description

Gets or sets a value indicating whether to send a preauthentication header with the request.

When System.Net.HttpWebRequest.PreAuthenticate is true and credentials are supplied, the WWW-authenticate HTTP header is sent with the initial request if its value is known; otherwise the request uses standard authentication procedures.

ProtocolVersion

ToString

1	
2	[C#] public Version ProtocolVersion {get; set;}
3	[C++] public:property Version* get_ProtocolVersion();public:property void
4	set_ProtocolVersion(Version*);
5	[VB] Public Property ProtocolVersion As Version
6	[JScript] public function get ProtocolVersion(): Version; public function set
7	ProtocolVersion(Version);
8	
9	Description
10	Gets or sets the version of HTTP to use for the request.
11	The System.Net.HttpWebRequest class supports only versions 1.0 and 1.1
12	of HTTP. Setting System.Net.HttpWebRequest.ProtocolVersion to a different
13	version throws an exception.
14	Proxy
15	ToString
16	
17	[C#] public override IWebProxy Proxy {get; set;}
18	[C++] public:property virtual IWebProxy* get_Proxy();public:property
19	virtual void set_Proxy(IWebProxy*);
20	[VB] Overrides Public Property Proxy As IWebProxy
21	[JScript] public function get Proxy(): IWebProxy;public function set
22	Proxy(IWebProxy);
23	
24	Description
25	Gets or sets proxy information for the request.

The System.Net.HttpWebRequest.Proxy property identifies the 1 System.Net.WebProxy instance to use to process requests to Internet resources. 2 To specify that no proxy should be used, set the 3 System.Net.HttpWebRequest.Proxy property to the proxy instance returned by 4 $the \ \ System. Net. Global Proxy Selection. Get Empty Web Proxy \ method.$ 5 Referer 6 **ToString** 7 8 [C#] public string Referer {get; set;} 9 [C++] public: __property String* get_Referer();public: __property void 10 set Referer(String*); 11 [VB] Public Property Referer As String 12 [JScript] public function get Referer(): String; public function set Referer(String); 13 14 Description 15 Gets or sets the value of the Referer HTTP header. 16 If the System.Net.HttpWebRequest.AllowAutoRedirect property is true 17 , the System.Net.HttpWebRequest.Referer property is set automatically when 18 the request is redirected to another site. 19 RequestUri 20 **ToString** 21 22 [C#] public override Uri RequestUri {get;} 23 [C++] public: property virtual Uri* get_RequestUri(); 24 [VB] Overrides Public ReadOnly Property RequestUri As Uri

[JScript] public function get RequestUri() : Uri; 2 Description 3 Gets the original URI of the request. The System.Uri instance passed to System.Net.HttpWebRequest by the 5 $call\ to\ System. Net. Web Request. Create (System. Uri, System. Boolean)\ .$ 6 SendChunked 7 **ToString** 9 [C#] public bool SendChunked {get; set;} 10 [C++] public: __property bool get_SendChunked();public: __property void 11 set SendChunked(bool); 12 [VB] Public Property SendChunked As Boolean 13 [JScript] public function get SendChunked(): Boolean; public function set 14 SendChunked(Boolean); 15 16 Description 17 Gets or sets a value indicating whether to send data in segments to the 18 Internet resource. 19 When System.Net.HttpWebRequest.SendChunked is true, the request 20 sends data to the Internet resource in segments. The Internet resource must support 21 receiving chunked data. 22 ServicePoint 23 **ToString** 24 25

1	
2	[C#] public ServicePoint ServicePoint {get;}
3	[C++] public:property ServicePoint* get_ServicePoint();
4	[VB] Public ReadOnly Property ServicePoint As ServicePoint
5	[JScript] public function get ServicePoint(): ServicePoint;
6	
7	Description
8	Gets the service point to use for the request.
9	The value of the System.Net.HttpWebRequest.ServicePoint property is
10	null until the System.Net.HttpWebRequest.GetResponse method is called.
11	Timeout
12	ToString
13	
14	[C#] public override int Timeout {get; set;}
15	[C++] public:property virtual int get_Timeout();public:property virtual void
16	set_Timeout(int);
17	[VB] Overrides Public Property Timeout As Integer
18	[JScript] public function get Timeout(): int;public function set Timeout(int);
19	
20	Description
21	Gets or sets the timeout value for a request.
22	System.Net.HttpWebRequest.Timeout is the number of milliseconds that
23	a synchronous request made with the
24	System.Net.HttpWebRequest.GetResponse method waits for a response. If a
25	resource does not respond within the time-out period, the request throws a

1	System.Net.WebException with the System.Net.WebException.Status property
2	set to System.Net.WebExceptionStatus.Timeout.
3	TransferEncoding
4	ToString
5	
6	[C#] public string TransferEncoding {get; set;}
7	[C++] public:property String* get_TransferEncoding();public:property void
8	set_TransferEncoding(String*);
9	[VB] Public Property TransferEncoding As String
10	[JScript] public function get TransferEncoding(): String; public function set
11	TransferEncoding(String);
12	
13	Description
14	Gets or sets the value of the Transfer-encoding HTTP header.
15	Before you can set the System.Net.HttpWebRequest.TransferEncoding
16	property, you must first set the System.Net.HttpWebRequest.SendChunked
17	property to true. Clearing System.Net.HttpWebRequest.TransferEncoding by
18	setting it to null has no effect on the value of
19	System.Net.HttpWebRequest.SendChunked.
20	UserAgent
21	ToString
22	
23	[C#] public string UserAgent {get; set;}
24	[C++] public:property String* get_UserAgent();public:property void
25	set_UserAgent(String*);

1	[VB] Public Property UserAgent As String
2	[JScript] public function get UserAgent(): String; public function set
3	UserAgent(String);
4	
5	Description
6	Gets or sets the value of the User-agent HTTP header.
7	Abort
8	
9	[C#] public override void Abort();
10	[C++] public: void Abort();
11	[VB] Overrides Public Sub Abort()
12	[JScript] public override function Abort();
13	
14	Description
15	Cancels a request to an Internet resource.
16	System.Net.HttpWebRequest.Abort cancels a request to a resource. After
17	a request is canceled, calling System.Net.HttpWebRequest.GetResponse,
18	System.Net.HttpWebRequest.BeginGetResponse(System.AsyncCallback,Syst
19	em.Object),
20	System.Net.HttpWebRequest.EndGetResponse(System.IAsyncResult),
21	System.Net.HttpWebRequest.GetRequestStream,
22	System.Net.HttpWebRequest.BeginGetRequestStream(System.AsyncCallbac
23	k,System.Object), or
24	System.Net.HttpWebRequest.EndGetRequestStream(System.IAsyncResult)
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will cause a System.Net.WebException with System.Net.WebException.Status set to System.Net.WebExceptionStatus.RequestCanceled .

AddRange

[C#] public void AddRange(int range);

[C++] public: void AddRange(int range);

[VB] Public Sub AddRange(ByVal range As Integer)

[JScript] public function AddRange(range: int);

Description

Adds a byte range header to a request for a specific range from the beginning or end of the requested data.

System.Net.HttpWebRequest.AddRange(System.Int32,System.Int32) adds a byte range header to the request. The starting or ending point of the range.

AddRange

[C#] public void AddRange(int from, int to);

[C++] public: void AddRange(int from, int to);

[VB] Public Sub AddRange(ByVal from As Integer, ByVal to As Integer)

[JScript] public function AddRange(from: int, to: int); Adds a range header to the request.

Description

Adds a byte range header to the request for a specified range.

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System.Net.HttpWebRequest.AddRange(System.Int32,System.Int32) adds a byte range header to the request. The position at which to start sending data. The position at which to stop sending data. AddRange [C#] public void AddRange(string rangeSpecifier, int range); [C++] public: void AddRange(String* rangeSpecifier, int range); [VB] Public Sub AddRange(ByVal rangeSpecifier As String, ByVal range As Integer) [JScript] public function AddRange(rangeSpecifier : String, range : int); Description Adds a range header to a request for a specific range from the beginning or end of the requested data. If range is positive, the range is from the start of the data to range. The description of the range. The starting or ending point of the range. AddRange [C#] public void AddRange(string rangeSpecifier, int from, int to); [C++] public: void AddRange(String* rangeSpecifier, int from, int to); [VB] Public Sub AddRange(ByVal rangeSpecifier As String, ByVal from As Integer, ByVal to As Integer) [JScript] public function AddRange(rangeSpecifier : String, from : int, to : int);

Description

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Adds a range header to a request for a specified range. The description of the range. The position at which to start sending data. The position at which to stop sending data.

BeginGetRequestStream

[C#] public override IAsyncResult BeginGetRequestStream(AsyncCallback callback, object state);

 $[C++]\ public:\ IAsyncResult*\ BeginGetRequestStream(AsyncCallback*\ callback,$ Object* state);

[VB] Overrides Public Function BeginGetRequestStream(ByVal callback As AsyncCallback, ByVal state As Object) As IAsyncResult

[JScript] public override function BeginGetRequestStream(callback:

AsyncCallback, state : Object) : IAsyncResult;

Description

Begins an asynchronous request for a System.IO.Stream instance to use to write data.

Return Value: An System.IAsyncResult that references the asynchronous request.

The

System. Net. Http WebRequest. Begin GetRequest Stream (System. Async Callback) and the stream of tk, System. Object) method starts an asynchronous request for a stream used to send data for the System.Net.HttpWebRequest . The asynchronous callback method uses the

System. Net. Http WebRequest. End GetRequest Stream (System. IA sync Result)

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method to return the actual stream. The **System.AsyncCallback** delegate. The state object for this request.

BeginGetResponse

[C#] public override IAsyncResult BeginGetResponse(AsyncCallback callback, object state);

[C++] public: IAsyncResult* BeginGetResponse(AsyncCallback* callback, Object* state);

[VB] Overrides Public Function BeginGetResponse(ByVal callback As AsyncCallback, ByVal state As Object) As IAsyncResult

[JScript] public override function BeginGetResponse(callback : AsyncCallback, state : Object) : IAsyncResult;

Description

Begins an asynchronous request to an Internet resource.

Return Value: An System.IAsyncResult that references the asynchronous request for a response.

The

System.Net.HttpWebRequest.BeginGetResponse(System.AsyncCallback,System.Object) method starts an asynchronous request for a response from the Internet resource. The asynchronous callback method uses the System.Net.HttpWebRequest.EndGetResponse(System.IAsyncResult) method to return the actual System.Net.WebResponse . The System.AsyncCallback delegate The state object for this request.

EndGetRequestStream

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2	[C#] public override Stream EndGetRequestStream(IAsyncResult asyncResult);
3	[C++] public: Stream* EndGetRequestStream(IAsyncResult* asyncResult);
4	[VB] Overrides Public Function EndGetRequestStream(ByVal asyncResult As
5	IAsyncResult) As Stream
6	[JScript] public override function EndGetRequestStream(asyncResult:
7	IAsyncResult): Stream;
8	
9	Description
10	Ends an asynchronous request for a System.IO.Stream instance to use to
11	write data.
12	Return Value: A System.IO.Stream to use to write request data.

System.Net.HttpWebRequest.EndGetRequestStream(System.IAsyncResult)
method completes an asynchronous request for a stream that was started by the
System.Net.HttpWebRequest.BeginGetRequestStream(System.AsyncCallbac
k,System.Object) method. Once the System.IO.Stream instance has been
returned, you can send data with the System.Net.HttpWebRequest by using the
System.IO.Stream.Write(System.Byte[],System.Int32,System.Int32) method.
The pending request for a stream.

EndGetResponse

The

[C#] public override WebResponse EndGetResponse(IAsyncResult asyncResult);[C++] public: WebResponse* EndGetResponse(IAsyncResult* asyncResult);[VB] Overrides Public Function EndGetResponse(ByVal asyncResult As

IAsyncResult) As WebResponse [JScript] public override function EndGetResponse(asyncResult : IAsyncResult) : 2 WebResponse; 3 4 Description 5 Ends an asynchronous request to an Internet resource.. 6 Return Value: A System.Net.WebResponse containing the response from the 7 Internet resource. 8 The 9 $System. Net. Http WebRequest. End GetResponse (System. IA sync Result) \ method$ 10 completes an asynchronous request for an Internet resource that was started by 11 calling 12 System. Net. Http WebRequest. Begin GetResponse (System. Async Callback, System. Async Callback, Sys13 em.Object). The pending request for a response. 14 GetHashCode 15 16 [C#] public override int GetHashCode(); [C++] public: int GetHashCode(); 18 [VB] Overrides Public Function GetHashCode() As Integer 19 [JScript] public override function GetHashCode(): int; 20 21 Description 22 Gets the hash code for this System.Net.HttpWebRequest. 23 Return Value: The hash code for the System.Net.HttpWebRequest. 24 25

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Description

The hash codes for System.Net.HttpWebRequest A and B are guaranteed to be the same when A.Equals(B) is true. GetRequestStream [C#] public override Stream GetRequestStream(); [C++] public: Stream* GetRequestStream(); [VB] Overrides Public Function GetRequestStream() As Stream [JScript] public override function GetRequestStream(): Stream; Description Gets a System.IO.Stream instance to use to write request data. Return Value: A System.IO.Stream to use to write request data. The System.Net.HttpWebRequest.GetRequestStream method returns a stream to use to send data for the System.Net.HttpWebRequest . Once the System.IO.Stream instance has been returned, you can send data with the System.Net.HttpWebRequest by using the System.IO.Stream.Write(System.Byte[],System.Int32,System.Int32) method. GetResponse [C#] public override WebResponse GetResponse(); [C++] public: WebResponse* GetResponse(); [VB] Overrides Public Function GetResponse() As WebResponse [JScript] public override function GetResponse(): WebResponse;

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Returns a response from an Internet resource.

Return Value: A System.Net.WebResponse containing the response from the Internet resource.

The System.Net.HttpWebRequest.GetResponse method returns a System.Net.WebResponse instance containing the response from the Internet resource. The actual instance returned is an instance of System.Net.HttpWebResponse, and can be typecast to that class to access HTTP-specific properties.

SetServicePoint

[C#] protected void SetServicePoint(ServicePoint servicePoint);

[C++] protected: void SetServicePoint(ServicePoint* servicePoint);

[VB] Protected Sub SetServicePoint(ByVal servicePoint As ServicePoint)

[JScript] protected function SetServicePoint(servicePoint: ServicePoint);

ISerializable.GetObjectData

[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,

StreamingContext streamingContext);

[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,

StreamingContext streamingContext);

[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal

streamingContext As StreamingContext) Implements ISerializable.GetObjectData

[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo,

streamingContext : StreamingContext);

HttpWebResponse class (System.Net)

ToString 3 Description Provides an HTTP-specific implementation of the 5 System.Net.WebResponse class. 6 The System.Net.HttpWebResponse class contains support for the 7 properties and methods included in System.Net.WebResponse with additional 8 elements that enable the user to interact directly with the HTTP protocol. 9 HttpWebResponse 10 Example Syntax: 11 **ToString** 12 13 [C#] protected HttpWebResponse(SerializationInfo serializationInfo, 14 StreamingContext streamingContext); 15 [C++] protected: HttpWebResponse(SerializationInfo* serializationInfo, 16 StreamingContext streamingContext); 17 [VB] Protected Sub New(ByVal serializationInfo As SerializationInfo, ByVal 18 streamingContext As StreamingContext) 19 $[JScript]\ protected\ function\ HttpWebResponse (serialization Info:$ 20 SerializationInfo, streamingContext: StreamingContext); 22 Description 23 24

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Initializes a new instance of the System.Net.HttpWebResponse class from the specified System.Runtime.Serialization.SerializationInfo and System.Runtime.Serialization.StreamingContext instances. This constructor implements the System.Runtime.Serialization.ISerializable interface for the System.Net.HttpWebRequest class. A System.Runtime.Serialization.SerializationInfo containing the information required to serialize the new System.Net.HttpWebRequest instance. A System.Runtime.Serialization.StreamingContext containing the source of the serialized stream associated with the new System.Net.HttpWebRequest instance. CharacterSet **ToString** [C#] public string CharacterSet {get;} [C++] public: property String* get_CharacterSet(); [VB] Public ReadOnly Property CharacterSet As String [JScript] public function get CharacterSet(): String; Description ContentEncoding **ToString** [C#] public string ContentEncoding {get;}

[C++] public: property String* get_ContentEncoding();

1	[VB] Public ReadOnly Property ContentEncoding As String
2	[JScript] public function get ContentEncoding(): String;
3	
4	Description
5	Gets the method used to encode the body of the response.
6	The System.Net.HttpWebResponse.ContentEncoding property contains
7	the value of the Content-Encoding header returned with the response.
8	ContentLength
9	ToString
10	
11	[C#] public override long ContentLength {get;}
12	[C++] public:property virtualint64 get_ContentLength();
13	[VB] Overrides Public ReadOnly Property ContentLength As Long
14	[JScript] public function get ContentLength(): long;
15	
16	Description
17	Gets the length of the content returned by the request.
18	The System.Net.HttpWebResponse.ContentLength property contains the
19	value of the Content-length header returned with the response. If the Content-
20	length header is not set in the response,
21	System.Net.HttpWebResponse.ContentLength is set to the value -1.
22	ContentType
23	ToString
24	
25	[C#] public override string ContentType {get;}

1	[C++] public:property virtual String* get_Content1ype();
2	[VB] Overrides Public ReadOnly Property ContentType As String
3	[JScript] public function get ContentType() : String;
4	
5	Description
6	Gets the content type of the response.
7	The System.Net.HttpWebResponse.ContentType property contains the
8	value of the Content-Type header returned with the response.
9	Cookies
10	ToString
11	
12	[C#] public CookieCollection Cookies {get; set;}
13	[C++] public:property CookieCollection* get_Cookies();public:property
14	<pre>void set_CookieCollection*);</pre>
15	[VB] Public Property Cookies As CookieCollection
16	[JScript] public function get Cookies(): CookieCollection; public function set
17	Cookies(CookieCollection);
18	
19	Description
20	Gets or sets the cookies associated with this request.
21	The System.Net.HttpWebResponse.Cookies property provides an
22	instance of the System.Net.CookieCollection class holding the cookies associated
23	with this response.
24	Headers
. 25	ToString

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[C#] public override WebHeaderCollection Headers {get;} [C++] public: __property virtual WebHeaderCollection* get_Headers(); [VB] Overrides Public ReadOnly Property Headers As WebHeaderCollection [JScript] public function get Headers(): WebHeaderCollection; Description Gets the headers associated with this response from the server. The System.Net.HttpWebResponse.Headers property is a collection of name/value pairs containing the HTTP header values returned with the response. Common headers, listed in the following table, are exposed as properties by the API: Header Property Content-Encoding ${\bf System. Net. Http WebResponse. Content Encoding}\ {\bf Content-Length}$ ${\bf System. Net. Http WebResponse. Content Length\ Content-Type}$ System.Net.HttpWebResponse.ContentType Last-Modified System.Net.HttpWebResponse.LastModified Server System.Net.HttpWebResponse.Server Gets the headers associated with this response from the server. LastModified **ToString** [C#] public DateTime LastModified {get;} [C++] public: property DateTime get_LastModified(); [VB] Public ReadOnly Property LastModified As DateTime

[JScript] public function get LastModified(): DateTime;

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2	Description
3	Gets the last date and time that the contents of the response were modified.
4	The System.Net.HttpWebResponse.LastModified property contains the
5	value of the Last-Modified header received with the response.
6	Method
7	ToString
8	
9	[C#] public string Method {get;}
10	[C++] public:property String* get_Method();
11	[VB] Public ReadOnly Property Method As String
12	[JScript] public function get Method(): String;
13	
14	Description
15	Gets the method used to return the response.
16	ProtocolVersion
17	ToString
18	
19	[C#] public Version ProtocolVersion {get;}
20	[C++] public:property Version* get_ProtocolVersion();
21	[VB] Public ReadOnly Property ProtocolVersion As Version
22	[JScript] public function get ProtocolVersion(): Version;
23	
24	Description
25	Gets the version of the HTTP protocol used in the response.

The System.Net.HttpWebResponse.ProtocolVersion property contains 1 the HTTP protocol version number of the response sent by the Internet resource. 2 ResponseUri 3 **ToString** 5 [C#] public override Uri ResponseUri {get;} 6 [C++] public: __property virtual Uri* get_ResponseUri(); 7 [VB] Overrides Public ReadOnly Property ResponseUri As Uri 8 [JScript] public function get ResponseUri(): Uri; 9 10 Description 11 Gets the uniform resource identifier (URI) of the Internet resource that 12 responded to the request A System.Uri instance containing the URI of the Internet 13 resource that responded to the request. 14 The System.Net.HttpWebResponse.ResponseUri property contains the 15 URI of the Internet resource that actually responded to the request. This URI may not be the same as the originally requested URI if the request was redirected by 17 the original server. 18 Server 19 **ToString** 20 21 [C#] public string Server {get;} 22 [C++] public: __property String* get_Server(); 23 [VB] Public ReadOnly Property Server As String 24

[JScript] public function get Server(): String;

1 Description 2 Gets the name of the server that sent the response. 3 The System.Net.HttpWebResponse.Server property contains the value of the Server header returned with the response. 5 StatusCode 6 **ToString** 7 8 [C#] public HttpStatusCode StatusCode {get;} [C++] public: __property HttpStatusCode get_StatusCode(); 10 [VB] Public ReadOnly Property StatusCode As HttpStatusCode 11 [JScript] public function get StatusCode(): HttpStatusCode; 12 13 Description 14 Gets the status of the response. 15 The System.Net.HttpWebResponse.StatusCode parameter is a number 16 indicating the status of the HTTP response. The expected values for status are 17 defined in the System.Net.HttpStatusCode class. 18 StatusDescription 19 **ToString** 20 21 [C#] public string StatusDescription {get;} 22 [C++] public: __property String* get_StatusDescription(); 23 [VB] Public ReadOnly Property StatusDescription As String 24 [JScript] public function get StatusDescription(): String; 25

Description 2 Gets the status description returned with the response. 3 Close 5 [C#] public override void Close(); 6 [C++] public: void Close(); 7 [VB] Overrides Public Sub Close() 8 [JScript] public override function Close(); 10 Description 11 Closes the response stream. 12 The System.Net.HttpWebResponse.Close method closes the response 13 stream and releases the connection to the Internet resource for reuse by other 14 requests. 15 Dispose 16 17 [C#] protected virtual void Dispose(bool disposing); 18 [C++] protected: virtual void Dispose(bool disposing); 19 [VB] Overridable Protected Sub Dispose(ByVal disposing As Boolean) 20 [JScript] protected function Dispose(disposing : Boolean); 22 Description 23 24 GetHashCode 25

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2	[C#] public override int GetHashCode();
3	[C++] public: int GetHashCode();
4	[VB] Overrides Public Function GetHashCode() As Integer
5	[JScript] public override function GetHashCode(): int;
6	
7	Description
8	
9	GetResponseHeader
10	
11	[C#] public string GetResponseHeader(string headerName);
12	[C++] public: String* GetResponseHeader(String* headerName);
13	[VB] Public Function GetResponseHeader(ByVal headerName As String) As
14	String
15	[JScript] public function GetResponseHeader(headerName : String) : String;
16	
17	Description
18	Gets a specified header value returned with the response.
19	Return Value: The value of the header specified.
20	The
21	System.Net.HttpWebResponse.GetResponseHeader(System.String) method
22	returns the value of the specified header. The header value to return.
23	GetResponseStream
24	
25	[C#] public override Stream GetResponseStream();
	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

1	[C++] public: Stream* GetResponseStream();
2	[VB] Overrides Public Function GetResponseStream() As Stream
3	[JScript] public override function GetResponseStream(): Stream;
4	
5	Description
6	Gets the stream used for reading the body of the response from the server.
7	Return Value: A System.IO.Stream containing the body of the response.
8	The System.Net.HttpWebResponse.GetResponseStream method returns
9	the data stream from the requested Internet resource.
10	IDisposable.Dispose
11	
12	[C#] void IDisposable.Dispose();
13	[C++] void IDisposable::Dispose();
14	[VB] Sub Dispose() Implements IDisposable.Dispose
15	[JScript] function IDisposable.Dispose();
16	ISerializable.GetObjectData
17	
18	[C#] void ISerializable.GetObjectData(SerializationInfo serializationInfo,
19	StreamingContext streamingContext);
20	[C++] void ISerializable::GetObjectData(SerializationInfo* serializationInfo,
21	StreamingContext streamingContext);
22	[VB] Sub GetObjectData(ByVal serializationInfo As SerializationInfo, ByVal
23	streamingContext As StreamingContext) Implements ISerializable.GetObjectData
24	[JScript] function ISerializable.GetObjectData(serializationInfo: SerializationInfo.
25	streamingContext : StreamingContext);

IAuthenticationModule interface (System.Net) **ToString** 3 Description 5 Provides the base authentication interface for Web client authentication 6 modules. 7 The System.Net.IAuthenticationModule interface defines the properties 8 and methods that custom authentication modules must use. 9 AuthenticationType 10 **ToString** 11 12 [C#] string AuthenticationType {get;} 13 [C++] String* get AuthenticationType(); 14 [VB] ReadOnly Property AuthenticationType As String 15 [JScript] abstract function get AuthenticationType(): String; 17 Description 18 Gets the authentication type provided by this authentication module. 19 The System.Net.IAuthenticationModule.AuthenticationType property 20 identifies the authentication type implemented by this authentication module. The 21 System.Net.IAuthenticationModule.AuthenticationType property is used by 22 the 23 System. Net. Authentication Manager. Register (System. Net. IA uthen tication Month Mont24 dule) method to determine if the authentication module has been registered, and

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1	by the
2	System.Net.AuthenticationManager.Unregister(System.Net.IAuthentication
3	Module) method to remove a registered authentication module.
4	CanPreAuthenticate
5	ToString
6	
7	[C#] bool CanPreAuthenticate {get;}
8	[C++] bool get_CanPreAuthenticate();
9	[VB] ReadOnly Property CanPreAuthenticate As Boolean
10	[JScript] abstract function get CanPreAuthenticate(): Boolean;
11	
12	Description
13	Gets a value indicating whether the authentication module supports
14	preauthentication.
15	The System.Net.IAuthenticationModule.CanPreAuthenticate property
16	is set to true to indicate that the authentication module can respond with a valid
17	System.Net.Authorization instance when the
18	System.Net.IAuthenticationModule.PreAuthenticate(System.Net.WebRequest
19	,System.Net.ICredentials) method is called.
20	Authenticate
21	
22	[C#] Authorization Authenticate(string challenge, WebRequest request,
23	ICredentials credentials);
24	[C++] Authorization* Authenticate(String* challenge, WebRequest* request,
25	ICredentials* credentials);

[VB] Function Authenticate(ByVal challenge As String, ByVal request As WebRequest, ByVal credentials As ICredentials) As Authorization

[JScript] function Authenticate(challenge: String, request: WebRequest, credentials: ICredentials): Authorization;

Description

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Returns an instance of the **System.Net.Authorization** class in respose to an authentication challenge from a server.

Return Value: An System.Net.Authorization instance containing the authorization message for the request, or null if the challenge cannot be handled.

The

System.Net.IAuthenticationModule.Authenticate(System.String,System.Net. WebRequest,System.Net.ICredentials) method conducts the authentication process with the server and returns an System.Net.Authorization instance to the System.Net.AuthenticationManager . The authentication challenge sent by the server. The System.Net.WebRequest instance associated with the challenge. The credentials associated with the challenge.

PreAuthenticate

[C#] Authorization PreAuthenticate(WebRequest request, ICredentials credentials);

[C++] Authorization* PreAuthenticate(WebRequest* request, ICredentials* credentials);

[VB] Function PreAuthenticate(ByVal request As WebRequest, ByVal credentials As ICredentials) As Authorization